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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
- Editor: Ary Boender      *****      e-mail: ary@luna.nl -
- Nickname on IRC channels #wun #monitor #numbers: Ary-B -
-                                     -
- Download the complete N&O newsletter from the N&O web site -
- at:  http://home.luna.nl/~ary/ -
-                                     -
- Online database: Chris Smolinski <csmolinski@erols.com> -
-          http://www.spynumbers.com/numbersDB/ -
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-::: N&O #56, December 2002 :::-

Welcome to the final edition of N&O in 2002. Besides some station news I have included an intelligence profile of the current and former Yugoslav republics.

I mentioned OTHR (Over-The-Horizon-Radar) and Chirp-sounders info in N&O from time to time. I have plans for a series of articles about this subject, starting next month. They will appear in my "Utility Round-up" column in the WUN newsletter. WUN's URL is <http://www.wunclub.com>

Before we kick off, I'd like to wish everyone a GREAT AND HEALTHY 2003! Don't forget to send us your logs and findings. We really need them!

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* VOICE STATIONS *

::: E03 - LINCOLNSHIRE POACHER

On request, the Lincolnshire Poacher's schedules:

Day	UTC	Frequencies			Day	UTC	Frequencies		
---	---	-----	-----	-----	---	---	-----	-----	-----
Sun	12	16084	15682	14487	Mon	12	16084	15682	14487
	13	16084	15682	14487		13	16084	15682	14487
	14	15682	14487	11545		14	14487	12603	10426
	15	13375	12603	11545		15	15682	13375	11545
	16	11545	10426	8464		16	13375	12603	11545
	17	13375	12603	11545		17	11545	8464	6959
	18	12603	9251	7337		18	12603	9251	7337
	19	11545	9251	6959		19	12603	9251	7337
	20	12603	10426	8464		20	11545	9251	6959
	21	9251	6959	5746		21	11545	9251	7887
	22	8464	6485	5422		22	11545	10426	6959

Tue	12	16084	15682	14487	Wed	12	16084	15682	14487
	13	16084	15682	14487		13	16084	15682	14487
	14	16314	14487	12603		14	20707	19452	18233
	15	10426	8464	7755		15	16084	14487	11545
	16	15682	13375	11545		16	10426	7755	6485
	17	13375	12603	11545		17	16475	14487	12603
	18	9251	6959	5746		18	11545	9251	6959
	19	11545	9251	6959		19	8464	6485	5746
	20	12603	9251	7337		20	11545	9251	6959
	21	12603	9251	7337		21	12603	9251	7337
	22	12603	10426	8464		22	12603	9251	7337

Thu	12	16084	15682	14487	Fri	12	16084	15682	14487
	13	16084	15682	14487		13	16084	15682	14487
	14	16084	15682	14487		14	16084	15682	14487
	15	19452	17417	16084		15	13375	12603	11545
	16	14487	12603	8464		16	16084	14487	12603
	17	8464	6485	5422		17	16084	13375	11545
	18	16475	14487	12603		18	8464	6485	5422
	19	11545	9251	6959		19	15682	13375	11545
	20	11545	9251	6959		20	11545	9251	6959
	21	9251	6959	5746		21	11545	9251	6959
	22	12603	9251	7337		22	9251	6959	5746

Day	UTC	Frequencies		
---	---	-----	-----	-----
Sat	12	16084	15682	14487
	13	16084	15682	14487
	14	14487	11545	10426
	15	13375	12603	11545
	16	13375	12603	11545
	17	15682	13375	11545
	18	16084	13375	11545
	19	8464	6485	5422
	20	11545	10426	6900
	21	11545	9251	6959
	22	11545	9251	6959

IDs in the first half of December:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	97543	97543	97543	97543	97543	97543	97543	1200
1300	15169	15169	15169	15169	15169	15169	15169	1300
1400	98809	50321	85373	51610	97543	40319	60721	1400
1500	60721	98809	50321	85373	51610	97543	88823	1500
1600	88823	60721	98809	50321	85373	51610	40319	1600

1700	40319	88823	60721	98809	50321	85373	97543	1700
1800	97543	40319	88823	60721	98809	50321	51610	1800
1900	51610	15169	40319	15169	60721	98809	15169	1900
2000	15169	97543	15169	88823	15169	60721	85373	2000
2100	85373	51610	97543	40319	88823	15169	50321	2100
2200	50321	85373	51610	97543	40319	88823	98809	2200

IDs in the second half of December:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	90318	90318	90318	90318	90318	90318	90318	1200
1300	29372	29372	29372	29372	29372	29372	29372	1300
1400	94186	14831	56046	64880	90318	98426	50699	1400
1500	50699	94186	14831	56046	64880	90318	69078	1500
1600	69078	50699	94186	14831	56046	64880	98426	1600
1700	98426	69078	50699	94186	14831	56046	90318	1700
1800	90318	98426	69078	50699	94186	14831	64880	1800
1900	64880	29372	98426	29372	50699	94186	29372	1900
2000	29372	90318	29372	69078	29372	50699	56046	2000
2100	56046	64880	90318	98426	69078	29372	14831	2100
2200	14831	56046	64880	90318	98426	69078	94186	2200

[IDs compiled by Al Kruse]

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::: E04 - CHERRY RIPE

Laurent was the first to report Cherry Ripe's 1400 UTC schedule. It was later confirmed by logs from AnonE2K. It might have replaced the 1000 UTC transmission. I have tried to compile E04's current schedules but did not succeed before the deadline. This is what I have so far:

```

1000 UTC, 20474 // 23461 kHz (not confirmed)
1100 UTC, 18864 // 23461 kHz
1200 UTC, 18864 // 23461 kHz
1300 UTC, 18864 // 21866 kHz
1400 UTC, 18864 // 20707 kHz
2200 UTC, 18864 // 24644 kHz (not confirmed)
2300 UTC, 18864 // 21866 kHz (not confirmed)
0000 UTC, 18864 // 21866 kHz (not confirmed)
0100 UTC, 19884 // 21866 kHz (not confirmed)

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::: E10

Thai Williams writes that he has heard his very first numbers station:

"VLB on 5230 at 0427z with message. VLB 2 followed till at least 0500z."
Welcome to the Numbers Scene, Thai. I hope to see a lot of logs from you
in the future.

I hadn't checked the lower frequencies for quite a while so I programmed
them in my receiver and scanned them for a couple of hours during the
evening and early night. I have found SYN on 3360, VLB on 3230 and CIO on
3270, all with their regular 00:15h and 00:45h schedules. I had no luck so
far on 2270 kHz.

VLB was heard with a number of suffixes and strings in December. CIO and
SYN joined in as well. The very irregular TMS call was also heard in
December, but still no sign of ABC.

3 Dec, 1222 UTC: TMS 2 on 23195 kHz
4 Dec, 1745 UTC: VLB 25
1845 UTC: VLB 55
2145 UTC: VLB 50
8 Dec, 2025 UTC: VLB H13KUF
9 Dec, 1900 UTC: CIO 2BVT02
1955 UTC: VLB 6H8B
10 Dec, 1955 UTC: VLB B202
11 Dec, 1900 UTC: CIO Z9XSPH
14 Dec, 2045 UTC: VLB T16R23B22
15 Dec, 2045 UTC: SYN F49G12K78

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::: V13

The number of New Star broadcasts have decreased drastically. Did anything
happen over there? New political ideas? Agents on vacation, or what???

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::: ILLICIT ACTIVITIES

Indonesian illicit stations were reported on 3560, 7000, 7005, 7010, 7025,
7070, 14052, 14100 and 18090 kHz. According to the sender these are anti
government / separatist organisations.

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* MORSE STATIONS *

::: M08 / M08a

John (john-k1rc@juno.com) says "Everyone needs a project to keep busy, so I thought I would create one for myself. I hope this isn't boring to all those out there with far more knowledge and experience than I have. I've gathered all the frequency information for Stations M08a from loggings, web links and some newsletter archives."

John made a matrix of the station's transmission schedules which is available as an Excel97 spreadsheet from the N&O website. He welcomes your comments. The stations seem to be pretty active, so M08a hunters, check the listed frequencies and let us have your logs!

Mark Slaten is an active M08 monitor. He copied the station on 19 Dec at 0700 UTC on 9063 kHz and writes: "The 0700z M8 sked on 9063m was most interesting. It started out in CW with garbled xmtr cxx sending: 22000 22220 (here stops and goes silent). At 0707z AM transmitter comes on and two (2) V2a broadcasts are up blocking each other out!

Please note that as far as the 0700z CW portion goes, I copied an M8a sked on October 31, 2002 at 0900z on 10126m sending callup of "20 00200 00200 02020 (R3)" then went into the standard three messages which were composed of all 0's and 2's. Could this be a new M8a procedure? Is there significance to these all 0 and 2 broadcasts? Has anyone else seen this phenomenon?

What is with Fidel and his operators that they can't seem to get the hang of broadcasting the right sked on the right freq at the right time? Their agents in the field must be pulling their hair out trying to receive a message in a timely manner!"

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::: M10

The December logs:

5027 kHz, Thu 0010 555
5027 kHz, Thu 0021 555x3 898x3 19 310x3 22
5027 kHz, Mon 0210 555x3 898x3 19 310x3 22
5027 kHz, Sat 0210 555x3 212x3 40 886x3 20
5027 kHz, Fri 0210 555x3 212x3 40 886x3 20
5027 kHz, Mon 0410 555x3 898x3 19 310x3 22
5027 kHz, Wed 0410 555x3 898x3 19 310x3 22
5027 kHz, Sat 0410 555x3 212x3 40 886x3 20
4007 kHz, Wed 2100 555 hight broadcast QRM
4007 kHz, Thu 2100
7605 kHz, Fri 1910 555x3 212x3 40 886x3 20

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::: M15 - EC3Y continued....

I received a note that says that the Spanish callsign was used because

the Germans supposedly used to operate from a station in the province of Cadiz, Spain - visible from highway N-IV near the city of San Fernando. The site is still there and is presumably active, probably being used by the Spanish now. The Germans used the site till the late 1980's or early 1990's.

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::: M21 - RUSSIAN AIR DEFENSE

Reception of the PVO stations will hopefully improve during the winter as they are still using low frequencies like 3322 and 4171.5 kHz. 6824 kHz is fairly good at night.

Plots and time/id strings were sent as usual:

=990149??0?????
=11168865511552
=11169875096452

Another military net transmits messages very similar to PVO. The main differences are the use of callsigns and Z-codes, like the one that Jim reported on 3301 kHz. It uses tactical callsign "PSNN" and sends strings like "9954249832832".

Other examples:

FOR ZMB ZMB 444406 = 44972290 RPT
FOR ZMB ZMB 444406 = 44972290 ar

This one was hand keyed:

81111285924
2002701080832
2003115616124
2966?0?????

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::: M22

M22 isn't a numbers station but a normal military station that regularly transmits coded messages. The station belongs to the navy in Haifa and transmits from a site near that city. Its callsign is 4XZ.

The following info has partly been published in the past and I thank Day and Mike for their efforts :-)

The station has been reported on a large number of frequencies during the past few years: 2680, 2800, 3394, 4237, 4241, 4331, 4442, 5001, 5159, 6379,

6416, 6797, 7954, 8103, 8437, 8706, 9256, 9263, 10046, 10355, 11010, 11170, 11548, 12984, 13001, 13892, 14000, 14003, 14495, 14544, 14648, 14695, 15001, 15013, 16034, 16317, 17050, 18329, 18426, 18480, 18549, 18609.5, 19637, 20589.7 and 20883 kHz.

Only a few of them were actually heard in 2002, namely: 2680, 2800, 4241, 4331, 5159, 6379, 6797, 7954, 8103, 10046, 12984, 13001, 13892, 14495, 15001, 18329 kHz.

Notes about 4XZ's operations:

- 24hr multi-frequency operation with at least two channels sending the same message simultaneously.
- The traffic consists of four distinctive types:
 - a) Traffic in off-line encrypted 5 letter groups sent in 24wpm or 28wpm CW. The first group is a combination like "nunun" or "ihihi", second group is the same as the last group.
 - b) Traffic in off-line encrypted 5 figure groups.
 - c) Traffic in what is assumed to be Hebrew morse.
 - d) Surface analysis/prognosis in WMO FM46-IV coding. (This is NOT 5 figure offline encryption).
- Marker "vvv de 4xz 4xz BT BT" sent if idle.
- Group counts and date/time groups sent in reverse as per Arabic ATU-80 code. Messages begin "ar ar nw qtc 1 nr 123". Message repeats begin "ar ar nw rpt nr 123".

Sample Message Formats:

- Example 1: Idle marker

```
vvv de 4xz 4xz = = vvv de 4xz 4xz = = vvv de 4xz 4xz = =  
vvv de 4xz 4xz = = vvv de 4xz 4xz = = vvv de 4xz 4xz = =
```

- Example 2: Typical off-line encrypted 5LGs message

```
nr 115 ml v ze1e [Message Number]  
548132 xo1f [DTG 23rd day, 1845]  
gr 82 == [28 groups]  
nunun mpeln briwn ndhef mrenx aozge rpxsl nkfre rneqy bjmrq rnjst
```

glwgb snmrx asueq hqjst sbxsa umqnq dcerg nwrex gfdlj illhm irszi
oejwb maeol zvet hpbpp tnezf mpeln ==

nr 115 ml v ze1e 548132 xo1f gr 82 == [Header Repeated]
nunun mpeln briwn ndhef mrenx aozge rpxsl nkfre rneqy bjmrq rnjst
glwgb snmrx asueq hqjst sbxsa umqnq dgerg nwrex gfdlj illhm irszi
oejwb mreql zeaet hpbpp tnezf mpeln ==

nr 115 ml v ze1e 548132 xo1f gr 82 == ar ar [Header Repeated, End]

- Example 3: Typical off-line encrypted 5FGs message

= = vvv de 4xz 4xz = = ar ar nw qtc 1 nr 515 = =

nr 515 yt z na0m 126042 dk3t wnc ==
10001 33388 02300= 99900 83014 32540= 83014 32702= 83022 34848=
87030 34221= 99922 44016 32049 32645 33038 32035= 44016 32008
33500= 44020 32850 33340 33335 33031 32027= 44020 32019 33008
34100= 44024 33250 33737 33430 32723 33512 34504 35005= 44028
33550 33940 33830 33520 34607 35011= 44028 35023 34530 34640
34450= 44024 35035 34650= 19191 == tcqir : apiqiet mdrem mzh
erkc bmrkz oim otiken igrme lrehet mogzro owp ~ asr tleeo bostpret
bmz " a . ==

nr 515 yt z na0m 126042 dk3t wnc ==
10001 33388 02300= 99900 83014 32540= 83014 32702= 83022 34848= 87030
34221= 99922 44016 32049 32645 33038 32035= 44016 32008 33500=
44020 32850 33340 33335 33031 32027= 44020 32019 33008 34100=
44024 33250 33737 33430 32723 33512 34504 35005= 44028 33550
33940 33830 33520 34607 35011= 44028 35023 34530 34640 34450=
44024 35035 ew4650= 19191 == tcqir : apiqiet mdrem mzh erkc bmrkz oim
otiken igrme lrehet mogzro owp ~ asr tleeo bostpret bmz " a . ==

nr 515 yt z na0m 126042 dk3t wnc == ar ar

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::: M40

Takashi logged M40 on 3810 kHz at 1400 UTC: "VVV CQ 211.841".

<<<<<>>>>>

::: M51

Only one report this month: 4815.5 kHz at 1802 UTC. It seems to be less active than a couple of years ago.

<<<<<>>>>>

::: M62

The Slovak Military station in Zilina has been spotted again. I had not heard it during the summer, but after a tip-off from Laurent, I've found it again. It uses the same set of tactical callsigns since 2000. The station sends occasional messages and occupies 3485 kHz with the following channel markers:

NVKL NVKL NVKL = HKVH HKVH HKVH +
FCQR FCQR FCQR = A7KG A7KG A7KG +
J7XD J7XD J7XD = D3QK D3QK D3QK +
QR2U QR2U QR2U = KP6F KP6F KP6F +

The station used 1732, 2851, 3381 and 4396 kHz in the past two years.

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::: M63

No reports for over a year. Most probably dead now. If anyone has info about its current status, please let me know.

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::: M76

One of our correspondents writes that M76 is still with us, daily 3819 at 0500 and 1750. Reports are very welcome.

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::: MX

The activity has drastically decreased since last month. So far only cluster beacons "S" and "F" were heard regularly while "K" and "M" were sporadic catches.

The defective "F" station on 7000 kHz is reportedly in synch with the "F" cluster beacon, so we may assume that it is a MX station after all. Thanks for the note, Takashi!

Active channel markers:

"L" 3335.7 kHz
"P" 16204 kHz
"R" 3195, 5465 kHz
"V" 3658 kHz

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::: UNID STATIONS

Two unids logged by Jim:

5098 kHz, 16 dec, 2112 UTC, slow morse 5FGs. Ends 0 0 0

5228 kHz, 14 Dec, 2009 UTC, slow morse = 261 (rptd) = 263 263 = 5FGs

The following unid station was heard by Igor. Ideas anyone?

5775 kHz, 0835 UTC, 04 Dec.

= nr o15 o3o3 o2o9 1618 e11x4 13o6 oo33 ~j5572 = b
= nr o16 o3o3 o1o1 1619 e11x4 1o~5 1o25 qk4~~4 = b
= nr o17 o3o3 o2o8 1619 e11x4 1~~o 6~~o qj1oo~ = b
= nr o18 o3o3 o2o3 162o e11x4 1~~5 1o22 qj5332 = b
= nr o19 o3o3 o3o9 162o e11x4 13o6 oo28 qj25o2 = b
= nr o2o i ?
nr o2o o3o3 o11o 162o e11x4 1oo5 1o2o ako23o = b
= nr o21 o3o3 o21o 1621 e11x4 13o6 oo26 qh3957 = b
= nr o22 o3o3 o111 1622 e11x4 1oo5 1o18 ak1229 = b
= nr o23 o3o3 o211 1622 e11x4 13o6 oo24 qh5152 = b
= nr o24 o3o3 o122 1623 e11x4 1oo5 1o15 ak2327 b34 = b
= nr o25 o3o3 o212 1623 e11x4 13o6 oo31 aho547 b34 = b ar
adv ar qdf ar bnz ar pan ar xvu ar are ar jbw ar
vfb ar k6p ar rdy ar crl ar ukd ar jpz ar jug ar
slj ar tqy ar dvl ar 6kc ar mvf ar fvy ar ndq ar
jpb ar

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::: RUSSIAN & CIS MILITARY STATIONS

Jim, Ralph, Trond, DCF, John and thanks for the tips and logs.

14014 kHz reportedly carried Russian military traffic in Morse. Callsigns heard: ZWBU, NRBN, XEF8. The traffic included flash messages like:

"XXX 5405, knavenie, 4941, 5936" and "XXX 72172 49418 Kazarka 2460, 3700"

Other Russian military nets: 3171, 3217 (answers on 3393), 3301, 3312, 3354 (answers on 2839), 3826, 3863, 4433, 4491.5, 4826, 5308.5, 5418 (answers on 4917) 12707 (answers on 11599).

Callsigns heard:

1LZM, 2VB7, 3XJT, 4IZA, 5ACB, 6GT2, 7F8B, 7NQB, 7RU8, 7UIN, 9DVZ, AMMZ, APBH, ARTF, ARY4, BAOL, BHLZ, C23A, CA40, CG1B, CIZY, CTDX, DC3K, DCSZ, FIWC, G16D, GD1H, GISL, GTCT, H1MF, I73W, I9XU, IGYK, IZ4C, IZZK, J2DX,

JGZD, JYLA, K4HR, K4PO, KOQT, LJET, LR4G, LRX2, LSQV, MB4R, N9DM, N9T4, NE7X, OL9Y, OMWG, OMWR, OWAR, PIYF, PROL, ST9B, TK8N, V48W, V6JF, V6SW, VGHG, VVPN, WV9A, XTWL, YHEG, YOWG, YTVH, YZMI, ZHE6

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::: CHINESE MILITARY STATIONS

Hardly any reports, just like last month:

"V LA5S LA5S LA5S DE NH8T NH8T" was copied on 7300 kHz and

"V GM3Z GM3Z GM3Z DE PNM9 PNM9" on 7623 kHz.

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::: CZECH / SLOVAK MILITARY STATIONS

The station on 2362 kHz is still there. I could not hear it during the summer months, but it is quite strong now. The pattern is still the same. The station occupies the frequency by continuously sending the addressees call until it has messages to send.

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* OTHER MODES *

::: S30 - PIP; daily on 5448 kHz (0530-1400) and 3756 kHz (1400-0530).

::: XWS - SQUEAKY WHEEL; daily on 3828.9 kHz.

::: VARIOUS PIPS; no news since last month.

::: S28 - BUZZER

An interesting month for the Buzzer fans. The station has send various messages on 1, 3, 6 and 9 December. Thanks for the reports, Jan!

1 Dec.: Control message at 0751 UTC. Male voice in Russian:

"UVB76 01 213. Skif. 38 87 23 95" (rpt)

Reception was bad, hence the word "Skif" and some figures may be wrong.

3 Dec.: Maintenance at 0700-0750 UTC. Transmitter No 2, pauses, 1 kHz tone, microphone test - "Aljo, aljo"

6 Dec.: Control message at 0303 UTC. Male voice in Russian:

"UVB76 UVB76 28 138 Kariama 77 56 01 51 Aggradacija 05 51 55 97
Glashatel 76 78 55 08"

9 Dec.: Control message at 04:18 UTC. Male voice in Russian:
"UVB-76. 62, 691. Izafet. 36, 93, 82, 70"

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::: JAMMERS

Beside the usual bunch of jammers from mainly Iran and Iraq on 7 MHz, the following frequencies were jammed:

Jammer	Frequencies
Cuba	18090 kHz
Iran	5360, 5630, 6750, 6990, 7020, 8240, 8300, 8600, 8950, 10450 and 13450 kHz
China	5925, 6035, 9945, 11550 kHz
South Korea	4120, 4450 kHz
Saudi Arabia	7590 kHz
Unid	7490 kHz, jamming Radio Moldova
Unid	5630, 14125 kHz

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* VARIOUS ITEMS *

::: WORLD WAR 1 spies

Check <http://english.pravda.ru/main/2002/11/27/40030.html> for an interesting story about German intelligence who used child spies in WWI.

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::: SP5ZCC - Scouts Radio Club ENIGMA Award

The following twelve special event stations will be active from Poland from 15 December 2002 through 15 March 2003 to commemorate the 70th anniversary of the breaking of the Enigma machine code by the Polish cryptographers (See also <http://www.enigmahistory.org/enigma.html>)

HF70E (QSL via SQ9A0J)	SN70E (QSL via SP6CDP)
HF70N (QSL via SP7CVW)	SN70N (QSL via SP6JKH)
HF70I (QSL via SP6IHE)	SN70I (QSL via SP5PPK)
HF70G (QSL via SP2DNI)	SN70G (QSL via SP1PBT)
HF70M (QSL via SP2PI)	SN70M (QSL via SP5ZCC)
HF70A (QSL via SP9PRO)	SN70A (QSL via SP9EVP)

Frequencies: all designated HAM SW frequencies.
Modes: SSB, CW, RTTY, PSK31, SSTV, HELL
and other popular amateur modes.

There is a special ENIGMA Award for contacts with the above stations. It is issued by SP DX Club - The Long Distance Radio Communication Club to commemorate Polish contribution to breaking the ENIGMA code. To apply for the award you must contact three special event stations from the above mentioned stations. The same requirements apply for SWL operators: three listening reports to the special event stations on the list. Contacts must be made in the period of time from December 15, 2002 to March 15, 2003. Send your application on a standard form. Award fee is 7 IRC's or 15 polish stamps for a 20 grams letter. Send applications to the Award Manager address:

Marek Niedzielski SP7DQR
P.O. Box 25
25-030 Kielce 10
POLAND

Visit the club's website at <http://www.sp5zcc.waw.pl/en/enigma.html>

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::: COMMANDO SOLO

After the Afghan psyop war, now Iraq is being targeted by the USA and so Commando Solo is flying again. Commando Solo is an Air Force EC-130E crammed with radio equipment used for propaganda broadcasts towards Iraq. Clandestine Radio Watch reports that US aircraft have dropped 480,000 leaflets over southern Iraq with six different texts. One of them mentioned the following schedule of "Information Radio": 1500-2000 UTC at 756, 693, 9715, 11292 kHz and 100.4 MHz

The station identifies in Arabic as "Idha'at Radiyo Al-Ma'ulumat," and occasionally as "Masdar Ma'ulumatikum, Idha'at Radiyo al-Ma'ulumat"(Your Source of Information, Information Radio).

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Mathias Kropf sent me his 2002 Clandestine Activity Survey:

During the year 2002 the activity of political clandestine stations broadcasting on shortwave has increased by 21% to 1732 Weekly Broadcasting Hours (WBHs). This is the highest level of activity since 1994 and the third year with increased activity in a row. The clandestine activity now has increased already by more than 50 % from its recent low in 1999.

Clandestine activity to target areas on the Asian continent has increased by 20% to 1312 WBHs and on the African continent by 15% to 242 WBHs. On the American continent activity has dropped by 8% to 162 WBHs. In Oceania, which was not active last year, activity is now at 16 WBHs.

The number of active target areas (countries) worldwide has increased by one to 22. While Sri Lanka and Colombia are thought to be no longer active; Kazakhstan, Syria and Papua New Guinea are new or reactivated target areas.

The three most active target areas worldwide are Iraq with 496 WBHs (+129 when compared with last year - the highest activity to a single target area ever since this survey was started back in 1986), North Korea with 217 WBHs (unchanged from last year) and Iran with 193 WBHs (+43).

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★ NUMBERS IN THE MEDIA ★

It looks like the media have discovered the numbers stations. Radio, tv and press zoomed in on the phenomenon. In Germany the HR, SWR2, ZDF and RTL all jumped on the bandwagon when Der Spiegel published "Jagd auf die Zahlensender". Agentura in Russia has also an item on its website that links espionage to the radio hobby. Simon Mason's essay in the 2002 Radio Prague listener's competition is about numbers station OLX and is now online at <http://www.radio.cz/en/html/simon.html>

"Der Spiegel", one of Germany's leading magazines published an article of Tobias Huerter for which he interviewed Jochen, Leif, me and several others. The original article -in German- can be found on Der Spiegel's website at <http://www.spiegel.de/spiegel/0,1518,226071,00.html>
Der Spiegel has kindly granted permission to WUN to publish the English version of the article in the WUN newsletter. We have included the article in this month's "Numbers and Oddities" column. A word of thanks goes to our translator.

On 8 Dec the Hessischer Rundfunk, a German radio station broadcasted a short item in "Netzwerk" (Network) about Jochen's collection of numbers stations recordings.

SWR2 (Südwestrundfunk) has interviewed Jochen for its "Dschungel" (Jungle) radio show. Jochen did his best BND and Stasi Fraulein imitations in this show. It was aired on Friday, 13 Dec at 1405 local time, via terrestrial frequencies and the Astra IC satellite. A real audio feed can be found on SWR's website at <http://www.swr2.de/dschungel/machete/index.html#2>

TV stations ZDF and RTL are reportedly working on a TV item about spy stations. ZDF will air it on 5 January at 2340 local time. When the RTL will broadcast the item is not clear yet. I'll post the date and time to the WUN and Spooks mailing lists when I have more info. Check also the ZDF website for more info (in German). It has a nice picture of the Bad Aibling station: <http://www.klack.de/TvPopupPrint.php3?PTYPE=TV&ID=275233440>

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DER SPIEGEL 49/2002 - December 2, 2002

URL: <http://www.spiegel.de/spiegel/0,1518,226071,00.html>

Author: TOBIAS HUERTER

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Publication and translation of this document has been approved by the author and by DER SPIEGEL.

Espionage - The hunt for numbers stations

If you want to witness secret services "live", all you have to do is turn on your radio. On short wave you can easily listen to coded messages for agents. Radio amateurs are catching these "spooks" on the ether waves.

Jochen Schaefer, age 30, knew exactly which frequency to tune to: 4270 kHz. Precisely at 10 p.m. on the 1st Thursday in November he received the signal from the shadow world: The note "B" in 3 ascending octaves. Then a mechanic female voice came up: "Achtung, Achtung". In a monotone way figures in groups of 5 followed: "7 0 2 4 0 - 2 8 2 1 1 - ...". After several minutes the unknown female signed off saying "Ende, Ende".

This was exactly how Schaefer expected it to be. He knows the transmitter's habits which he has in his logbook with the designation "G04" (G for German). 25 years ago, before even going to school, the guy from Marburg began to search the short wave spectrum between the known radio stations for spooky voices - with big success: Around the globe hundreds of "numbers stations" are spooking through the short wave bands.

Who is sending this "salad of figures" into the air? What for? And to who? Radio enthusiasts like Schaefer are convinced: They are listening to agents' radio. And they grimly pursue their trace. Night after night they keep records of the transmissions they intercepted. With scientific precision they note language, time and frequency, compare voices and structures of the announcements. In their own jargon full of abbreviations and code words they then exchange their findings on the internet. Schaefer, blind from birth and blessed with an absolute sense of hearing, has archived those crypto-sounds on a total of now 478 tapes.

While numbers stations are chatting away on the air, their operators are holding their tongue very tightly. Although the last numbers station allegedly run by the BND (Bundesnachrichtendienst) went silent 3 years ago, nobody in Pullach can struggle himself through to a clear statement. This would be "still a too recent part of history", they say. Only when promised to remain anonymous, a member of a secret service talks in the clear: "Yes, numbers stations are spy radio. The CIA, for example, runs

them".

Very rarely this secret radio network attracts the public interest: In 1988 an art dealer in London (who was in possession of a forged passport claiming his name was "Erwin van Haarlem") was uncovered by the British secret service as an informant of the Czechoslovak service "StB". Over the course of 13 years, "van Haarlem" had recorded 200 coded figure messages with only his kitchen radio. He had deciphered them with the aid of codes he kept hidden in hollowed pieces of soap.

Just recently another female top spy with a radio was uncovered, this time on the other side of the Atlantic ocean. In March 2002 Ana Belen Montes, Washington's most important expert on Cuba, confessed to have been spying for Castro's county for 16 years. On Montes' laptop computer FBI agents found a hidden program for decryption as well as sequences of figures that where received earlier via short wave from Cuba.

It's only cases like this one that provide hints about the origin of these numbers stations. Radio amateurs are just trying to put together the rest. In most cases they don't even know the station's location. They can only roughly estimate the direction from the signal strength.

They have, however, learned to recognize the senders by their handwriting. Ary Boender from the Netherlands explains: "Every service has its own typical format, its characteristic announcements at the beginning and the end of each transmission and its own way of repeating itself".

Boender, for example, recognizes the Israeli secret service "Mossad" as their transmissions always start with a call sign consisting of 3 letters. The BND used to use 2 letters. The CIA likes to mix their sequence of figures with beeping tones. Chinese stations politely thank their listeners and wish them a "good day".

Back in the seventies, a station presumably run by the East German "Stasi", showed an extraordinarily bizarre behavior: The program started with an Alpine yodeling song ("Der Boellerschuetz' von Mittenwald"), followed by the "The Internationale" - with its end one semitone too low. Russian secret services are even making their messages a melody: For every figure a certain tone is being transmitted.

G04 with its triple B is being categorized by the numbers hunters as "family XIII" and they suspect the station to be originating from the "Budapest area". Maybe they once helped themselves in the archives of a brother country because Jochen Schaefer knows G04's voice from old transmissions from the former German Democratic Republic. "Meanwhile the tape is sounding somewhat worn out". The target area? "Frequencies and the schedule of the transmission point towards Europe", Boender says. "Probably Germany, because G04 transmits in German".

So, was a German "Erwin van Haarlem" on November 7 (13 years after the opening of the iron curtain) writing down numbers sent by G04 on behalf of a strange service, and did he decipher from them his new instructions? Boender believes that, but he cannot prove it.

At least the hobby-listeners meanwhile know the location of the - most likely - single active numbers transmitter in Germany. Leif Dehio, age 35, a radio monitoring specialist from Munich, has located the antennas of "E05" (E for English). He packed his radio electronics into his car and traced the signals to a forest area south of Frankfurt on Main.

Where maps are showing nothing but a white spot, there are 20 antennas on a glade, 3 square kilometers in size, protected by a barbed wire and an electric fence. No sign indicates the owner of the spooky place. All you can hear is the roaring of underground generators.

The station E05's female announcer is nicknamed "Cynthia" among the radio amateur community, because she is believed to be the voice of the CIA. Although the European headquarter of the US land forces in Heidelberg confesses that this is indeed their transmitter, it is eager to appease: The mysterious transmissions are just to test the antennas and any involvement of the CIA it is "pure speculation".

Routine tests? Half the truth is what it probably is: All the equipment has to be checked regularly and the staff needs to be trained. For this sole purpose the CIA is operating the "Warrenton Training Center" in the Virginia mountains; until recently Cynthia could also be heard from there. Some parts of the radio traffic are most probably only there to keep certain frequencies occupied.

When things are winding up for the secret services, Boender, Schaefer and their colleagues are also listening in with great attention. Since decades they are noticing how radio traffic decreases and increases according to the political tension. During the cold war especially the European ether was jumping with transmissions. Over Korea, numbers continue to be sent back and forth: The South garnishes them with singing and a guitar, the North is sending back marching music.

During the last Gulf war the operation "desert storm" got to be known several days beforehand by an increase in the transmissions by numbers stations. When - back in fall of 2001 - America sent special forces to Afghanistan, the activity of E05 and other stations increased considerably. At the same time two new numbers stations in Persian language showed up, both with the characteristics of Russian secret service stations. In August this year, when the US government concretized its plans to invade Iraq, E05 again was remarkably active.

Since at least 40 years secret services are contacting their agents via radio - and their method is in no way outdated. Until today short wave transmissions are without competition in both anonymity and safety. Bouncing back and forth between the earth's surface and the ionosphere they travel thousands of miles, without the necessity for vulnerable wires or satellites. And above all: No address, phone number or traces on web pages show any evidence of the recipient.

So it does not hurt if some radio freaks are listening - as long as they are unable to decipher the endless columns of figures. But Schaefer is not interested in the contents anyway: "It's a game", he says. A game that is keeping him up and by the radio until late at night. "Everyone wants to be the first to discover a new station".

If you want to join in, your chance to practice is on Dec 5 at 10 p.m. G04 will most likely be on the air again. Frequency this time: 4110 KHz.

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The following is a paraphrased translation of the Agentura article but conveys the meaning pretty well. The description of WUN's activities doesn't fit our charter, that's for sure :-) We have nothing to do with espionage, let that be clear to everyone! The original article is in Russian and can be found on <http://www.agentura.ru/equipment/radio/spooks/> The English text doesn't always sound right, but it gives a pretty good idea what the article says. After reading it, I was very interested to know who or what C-1000 is. If you have info about C-1000, please let us know.

Radio hobbyists against espionage:

For the last several years an independent organisation has existed which was established to compete with the most successful intelligence organization in the world. They are involved in a field that is traditionally considered as the most secret and serious: radio intercept. Members of this organization are active worldwide listening to the radio waves in a search for espionage signals.

Radio hobbyists and members of the club WUN (Worldwide Ute News) are simply ordinary residents of the US, France, Germany, Holland, etc. UTE designates that this club is interested in radio stations working in the radio spectrum up to 30MHz. Officially, the club was established in January 1995. 11 individuals from the US, Europe, Japan, New Zealand and so on make up the staff of WUN. Ordinary members of the club number already a several hundred, and at the present time there is virtually no place on the planet that doesn't

have a member of the club.

In comparison to the USSR and later Russia, in the USA it is not forbidden to listen to frequencies (more so, they even publish lists with the assigned frequencies of airports, police, etc). As a result of many years of monitoring radio waves, the members of the club have gathered information, such as the schedules of discovered stations. It is a fact that members have collected information for themselves and after analyzing this large amount of data can even forecast transmission times. So writes Viktor Suvorov, in "Akvarium":

"And therefore, as a result of many years of analysis, it becomes possible to say: If RB-7665-1 disappears from the air, in 4 days a mass takeoff from Ramstein will occur. This doesn't even violate any laws! And if a station which we call C-1000 suddenly starts working then it is clear, even to children, that American military mobilizations will take place in Europe."

We, at Agentura, being interested in information about espionage agencies, thought that it was impossible to overlook the data of WUN. We talked with the club's president Ary Boender and received his generous permission to link to the club resources. That way, whoever is interested in the activities of Russian external espionage and FAPSI, will find a lot of interesting information on that site."

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★ INTELLIGENCE PROFILE ★

This time we cover the former Yugoslavian republics Bosnia & Herzegovina, Croatia, Macedonia, Slovenia, and the new Federal Republic of Yugoslavia. Additions and corrections are welcome.

::: Bosnia & Herzegovina

Background:

Bosnia and Herzegovina's declaration of sovereignty in October 1991, was followed by a declaration of independence from the former Yugoslavia on 3 March 1992 after a referendum boycotted by ethnic Serbs. The Bosnian Serbs - supported by neighboring Serbia and Montenegro - responded with armed resistance aimed at partitioning the republic along ethnic lines and joining Serb-held areas to form a "greater Serbia." In March 1994, Bosniaks and Croats reduced the number of warring factions from three to two by signing an agreement creating a joint Bosniak/Croat Federation of Bosnia and Herzegovina. On 21 November 1995, in Dayton, Ohio, the

warring parties signed a peace agreement that brought to a halt the three years of interethnic civil strife (the final agreement was signed in Paris on 14 December 1995). The Dayton Agreement retained Bosnia and Herzegovina's international boundaries and created a joint multi-ethnic and democratic government. This national government was charged with conducting foreign, economic, and fiscal policy. Also recognized was a second tier of government comprised of two entities roughly equal in size: the Bosniak/Croat Federation of Bosnia and Herzegovina and the Bosnian Serb-led Republika Srpska (RS).

The Federation and RS governments were charged with overseeing internal functions. In 1995-96, a NATO-led international peacekeeping force (IFOR) of 60,000 troops served in Bosnia to implement and monitor the military aspects of the agreement. IFOR was succeeded by a smaller, NATO-led Stabilization Force (SFOR) whose mission is to deter renewed hostilities. SFOR remains in place at the January 2002 level of approximately 18,000 troops, though further reductions may take place later in the year.

General:

Country name : Bosnia and Herzegovina
Local name : Bosna i Hercegovina
Capital : Sarajevo

Military branches:

VF Army (the air and air defense forces are subordinate commands within the Army), VRS Army (the air and air defense forces are subordinate commands within the Army)

Intelligence:

- Bosnia-Herzegovina Federation Intelligence and Security Service (FOSS)

FOSS is the new BIH intelligence agency formed after a merger of the National Security Service (SNS) and Agency for Investigation and Documentation (AID).

[Sources: CIA World Factbook, FAS, Center for South-east European studies, Office of High Representative website, Federation News Agency (FENA)]

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::: Croatia

Background:

In 1918, the Croats, Serbs, and Slovenes formed a kingdom known after 1929 as Yugoslavia. Following WWII, Yugoslavia became an independent communist state under the strong hand of Marshal TITO. Although Croatia declared its independence from Yugoslavia in 1991, it took four years of sporadic, but often bitter, fighting before occupying Serb armies

were mostly cleared from Croatian lands. Under UN supervision the last Serb-held enclave in eastern Slavonia was returned to Croatia in 1998.

General:

Country name: Republic of Croatia
Local name : Republika Hrvatska
Capital : Zagreb

Military branches:

Ground Forces (Hrvatska Vojska, HV), Naval Forces, Air and Air Defense Forces.

Intelligence:

- Koordinacija Za Unutarnju I Vanjsku Politiku
Standing Committee for Internal and Foreign Affairs

This committee of the Croatian Parliament is responsible for oversight of the intelligence community as a whole. It consists of the Ministers of Interior, Defense, Finance, Justice, Foreign Affairs, and European Integration. The committee's task is to ensure that the intelligence community is organized and operating in accordance with the law.

The Ministry of the Interior is responsible for national security, hence the police and SZUP, the internal federal security service, are under its wings.

- Sluzba Za Zastitu Ustavnog Poretka (SZUP)
Service for the Protection of the Constitutional Order

The SZUP is Croatia's internal federal security service. It runs various departments:

- The National Security Department is responsible for foreign counter-intelligence.
- Department for the Hostile Activities of Serbs.
- Department for the Hostile Activities of Muslims and Arabs.
- Operations.
- Political Violence: the task of this department is to uncover persons who would organize demonstrations against the current regime.
- Obavestajna Bezbednostna Sluzba (OBS)
Security Intelligence Service

The Ministry of Foreign Affairs has its own intelligence agency, the OBS. The main task of the OBS is/was espionage against Yugoslavia (especially Serbia). It is said that OBS is also responsible for surveillance of the diaspora community.

- Ured Za Nacionalnu Sigurnost (UNS)
The National Security Office

In 1995, a new security act was passed by the government which describes the activities of the UNS. The activities of the UNS are defined as:

- integrate, analyze, and evaluate intelligence for the president.
- coordinate intelligence activities of the various ministries.
- control of all intelligence and counter-intelligence services.

The UNS has four main branches: HIS, NS, NSEI, and SO. In addition to the four branches, the UNS has its own Intelligence Academy (Obavestajna Akademija).

- Hrvatska Izvestajna Sluzba (HIS)
Croatian Intelligence Service

This one is responsible for collecting and analyzing intelligence for the president and prime minister. It coordinates the activities of the other services and deals exclusively with foreign countries.

- Nadzorna Sluzba (NS)
Control and Supervision Service

The NS is responsible for internal security of the Croat intelligence community.

- Stozer Osiguranja (SO)
Security Headquarters

The main tasks of the SO are the security of the president and ministers, and it handles counter-intelligence.

- Nacionalna Sredisnjica Elektronickog Izvidanja (NSEI)
National Service for Electronic Monitoring

This SIGINT agency works closely together with the army signals corps. The NSEI coordinates and manages all SIGINT info for Croatia, both internally and externally and reports to the Joint National Security Committee (SONS).

- Stozerni Odbor za Nacionalnu Sigurnost (SONS)
Joint National Security Committee
- Koordinacijski Odbor Obavjestajne Zajednice (K00Z)
Intelligence Community Coordination Committee

The SONS committee consists of the ministers of Defense, Foreign Affairs, Finance, Internal Affairs, Development and Reconstruction, and the director of HIS and is chaired by the director of UNS.

A SONS meeting is normally followed by a K00Z meeting where the heads of the intelligence agencies respond to the requirements of the Security Committee.

The military intelligence branches are the responsibility of the Ministry of Defense. The most important agency is the SIS. The army has also intelligence services: the ObU- GS-OS and OSHV.

- Sigurnosno Izvestajna Sluzba (SIS)
Security Information Service

Counter-intelligence is one of the main tasks of the SIS. Providing physical security for the Ministry of Defense and General Staff is another.

- Obavestajna Uprava pri Glavnom Stozeru Oruzanih Snaga (ObU- GS-OS)
Directorate of Intelligence Affairs of the Croatian Army Headquarters

The ObU-GS-OS is the intelligence coordinating service for the military and reports to the General Staff. Its four departments are: Signals Security, HUMINT, SIGIN and ELINT.

- Obavestajna Sluzba Hrvatske Vojska (OSHV)
Intelligence Service of the Croatian Army

The OSHV is primarily concerned with military intelligence, particularly intelligence collection and counter-intelligence operations against Serb forces in Krajina and Serbia.

[Sources: CIA World Factbook, FAS, Svijet, UNS website]

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::: Macedonia

Background:

International recognition of the Former Yugoslav Republic of Macedonia's (FYROM) independence from Yugoslavia in 1991 was delayed by Greece's objection to the new state's use of what it considered a Hellenic name and symbols. Greece finally lifted its trade blockade in 1995, and the two countries agreed to normalize relations, despite continued disagreement over FYROM's use of "Macedonia." FYROM's large Albanian minority, an ethnic Albanian armed insurgency in FYROM in 2001, and the status of neighboring Kosovo continue to be sources of ethnic tension.

General:

Country name: Former Yugoslav Republic of Macedonia (FYROM)

Local name : Republika Makedonija
Capital : Skopje

Military branches:

Army, Air and Air Defense Forces, Police Force

Intelligence:

- Macedonian Intelligence Service (AR)

AR was the result of a merger between the Intelligence Service of the army and the former State Security Service. AR reports directly to the president.

- Direkcijata za Bezbednost i Kontrarazuznavawe (DBK)
Directorate for Security and Counter-espionage

The Ministry of Interior is responsible for the DBK. Its tasks are internal security, combating organized crime and counter-intelligence.

- Bezbednosno-Razuznavacka Sluzba (BRS)
Armed Forces Security Service

This is the military intelligence agency, tasked with intelligence collecting and counter-intelligence.

[Sources: CIA World Factbook, FAS, Brassey's International Intelligence Yearbook 2001, Center for South-east European studies]

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::: Slovenia

Background:

The Slovene lands were part of the Holy Roman Empire and Austria until 1918 when the Slovenes joined the Serbs and Croats in forming a new nation, renamed Yugoslavia in 1929. After WWII, Slovenia became a republic of the renewed Yugoslavia, which though Communist, distanced itself from Moscow's rule. Dissatisfied with the exercise of power of the majority Serbs, the Slovenes succeeded in establishing their independence in 1991. Historical ties to Western Europe, a strong economy, and a stable democracy make Slovenia a leading candidate for future membership in the EU and NATO.

General:

Country name: Republic of Slovenia
Local name : Slovenija
Capital : Ljubljana

Military branches:

Slovenian Army (includes Air and Naval Forces)

Intelligence:

- Obvešćevalno Varnostna Sluzba (OVS)
Slovenian Intelligence and Security Agency

OVS is an independent government office which collects and evaluates data and supplies information on the basis of the law and in line with priorities determined by the government program for national security, passed by the National Assembly:

- important information from abroad necessary for ensuring the security, political and economic interests of the state;
- information about organisations, groups and individuals who, by their activities abroad or in connection with foreign countries, actually threaten or could threaten the national security of the state and its constitutional system. The Agency co-operates with the relevant state bodies and offices in security checks, as well as supplying data relevant to the safety of certain persons, professional positions, bodies, structures and areas.

[source: Government of the Republic of Slovenia website]

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::: Yugoslavia

Background:

The Kingdom of Serbs, Croats, and Slovenes was formed in 1918; its name was changed to Yugoslavia in 1929. Occupation by Nazi Germany in 1941 was resisted by various paramilitary bands that fought themselves as well as the invaders. The group headed by Marshal TITO took full control upon German expulsion in 1945. Although Communist, his new government successfully steered its own path between the Warsaw Pact nations and the West for the next four and a half decades. In the early 1990s, post-TITO Yugoslavia began to unravel along ethnic lines: Slovenia, Croatia, and The Former Yugoslav Republic of Macedonia all declared their independence in 1991; Bosnia and Herzegovina in 1992. The remaining republics of Serbia and Montenegro declared a new "Federal Republic of Yugoslavia" (FRY) in 1992 and, under President Slobodan MILOSEVIC, Serbia led various military intervention efforts to unite Serbs in neighboring republics into a "Greater Serbia." All efforts were ultimately unsuccessful. In 1999, massive expulsions by FRY forces and Serb paramilitaries of ethnic Albanians living in Kosovo provoked an international response, including the NATO bombing of Serbia and the

stationing of NATO and Russian peacekeepers in Kosovo. There are Democratic Opposition of Serbia (DOS)-led coalitions governing at the federal and Serbian Republic levels, implementing a wide-ranging political and economic reform program. The governing coalition in Montenegro is seeking independence from the Federation. Kosovo has been governed by the UN Interim Administration Mission in Kosovo (UNMIK) since June 1999, under the authority of UN Security Council Resolution 1244.

General:

Country name: Federal Republic of Yugoslavia
Local name : Savezna Republika Jugoslavija
Capital : Belgrade

Military branches:

Army (VJ) (including ground forces with border troops, naval forces, air and air defense forces).

Intelligence:

- Sluzba Informaitvna u Dokumenti (SID)
Information and Documentation Service

The SID is tasked with the gathering of intelligence overseas. The agency is under the wings of the Ministry for Foreign Affairs and operates often from embassies etc.

- Uprava Drzavne Bezbednosti (UDB)
Department of State Security
- Sluzba Drzavne Bezbednosti (SDB)
State Security Service

In 1966 the Uprava drzavne bezbednosti (UDB) or Secret Police a.k.a. the Department of State Security, was reorganzied and renamed in SDB. The agency is the responsibility of the Ministry of Interior. The agency has intelligence and counter-intelligence tasks. It is also responsible for the safety of the president and his family.

The SBD has departments for domestic problems and for extremists, analytical services, the technical service (bugging, filming, etc.), and a personnel department. Its agents infiltrate into all the structures of the university and all the gathering places of people that are potentially politically dangerous in crisis situations. All important telephone lines and interesting installations dangerous to the regime are eavesdropped on, including key departments in the SBD's own ranks.

The SBD also tries to obstruct the British monitoring installation at the Turdos base on Cyprus with devices placed in Kaludjerica near Belgrade and

Ivanjica in Sumadija.

- Kontraobavesajna Sluzba (KOS)
Counterintelligence Service

KOS is reportedly one of the most conservative services in the world. Until the early 1990's the processing of intelligence was done by KOS and other military services. Around that time a major conflict between the SDB and the military services emerged. This resulted in more power for the SDB and less power for the various military agencies, including KOS. KOS is still one of the major intelligence services in Yugoslavia, though.

- Related numbers stations

Two families of numbers stations are believed to be related to the former Yugoslavian republic. They are all defunct now.

AIDA Family	S01	S02	E01	M17	X01
BVT/YT Family	S08	M27			

A station that was reported till mid 2000 reportedly transmitted from Serbia. It is possible that it is still on the air but I haven't received any reports lately.

5440 kc ??? 2218Z 27.12.99 AM/OM/?? in progress calling "958 --- 00000" a couple of times, at 2222Z off air.

Pronunciation : Devjat-Pjat-Ocem --- Nulad..."

6878 ??? 0818Z 29.12.99 AM/OM/?? in progress calling "471--- 00000" a couple of times, at 0830 off air

Pronunciation : Cetiri Sjem Jedna ---Nulad..."

[Sources: CIA World Factbook, FAS, "Espionage" by Richard M. Bennett, Library of Congress Country Studies, USA]

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* INTELLIGENCE NEWS *

::: CYPRUS / UK

The Cyprus Peace Council expresses strong opposition to the installation of a massive telecommunications antenna in the British Bases area of Akrotiri. The position is outlined in resolutions approved during a mass peace march held on 29 September in the area and handed today to the British High Commission, the UN and the Delegation of the European Commission. (Source: Cyprus News Agency)

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* LOGS SECTION *

2362		Czech/slovak mil. Sends call J7QK CW 21-12-02 Sat 2256 (AB)
2680	M22	4XZ. Israeli navy Haifa. VVV marker CW 24-12-02 Thu 2155 (AB)
3025.0	M08a	(in progress) ID ----- 24933 ----- CW 17-12-02 Tue
3150.0	E10	PCD2 USB 11-12-02 Wed 1930 (GG)
3150.0	E10	PCD2 USB 11-12-02 Wed 2000 (GG)
3168	M13b	id 716 CW 28-12-02 Sat 2200 (AB)
3168	M13b	716 716 716 000 CW 29-12-02 Sun 2200 (AB)
3195	MX	Channel marker "R", Izhevsk CW 20-12-02 Fri 2310 (AB)
3230	E10	VLB2 AM 21-12-02 Sat 2245 (AB)
3270	E10	CI02 AM 21-12-02 Sat 2245 (AB)
3270.0	E10a	CI0Z9XSPH USB 11-12-02 Wed 1915 (GG)
3298.0	S10	USB 06-12-02 Fri 0021 (LC2)
3312		CIS military I73W DE K4HR QSX K CW 21-12-02 Sat 2249 (AB)
3322	M21	Russian Air Defense. =990149??0????? =11168865511552 =11169875096452 CW 01-12-02 2247 (DW)
3322	M21	Russian Air Defense =990103?0????? CW 06-12-02 Fri 2203 (AB)
3335.7	MX	Channel marker "L", St. Petersburg CW 20-12-02 Fri
3336.2	MX	Channel marker "L", St. Petersburg CW 01-12-02 2316
3360	E10	SYN2 AM 21-12-02 Sat 2345 (AB)
3389.0	V02a	in prog; A ----- 72822 ? AM 17-12-02 Tue 0120
3417.0	E10	28 UDOND (??? very fast delivery) USB 11-12-02 Wed 2000 (GG)
3485	M62	Slovak mil Zilina. QR2U QR2U QR2U = KP6F KP6F KP6F + CW 20-12-02 Fri 2337 (AB)
3640.0	E10	MIW2 USB 11-12-02 Wed 1715 (GG)
3658	MX	Channel marker "V", Khiva CW 20-12-02 Fri 2312 (AB)
3756	S30	The Pip CW 20-12-02 Fri 2308 (AB)
3828.9	XSW	Squeaky Wheel 14-12-02 Sat 2221 (AB)
3840.0	E10	AM 10-12-02 Tue 0000 (AVX)
3926.0	M08a	ID 94802 95251 25441 CW 18-12-02 Wed 1000 (MS)
3926.0	M08a	ID 62381 44811 95253 CW 20-12-02 Fri 1000 (MS)
3926.0	M08a	ID 62563 43491 01713 CW 29-12-02 Sun 1000 (MS)
4007.0	M10	call 555 hight broadcast QRM CW 18-12-02 Wed 0021
4007.0	M10	broadcast qrm CW 19-12-02 Thu 0021 (LC2)
4015	E10	VLB2 AM 14-12-02 Sat 2215 (AB)
4015.0	E10	VLB2 USB 08-12-02 Sun 0146 (GG)
4015.0	E10	VLB2 USB 08-12-02 Sun 0346 (GG)
4015.0	E10	VLB2 USB 08-12-02 Sun 0446 (GG)
4015.0	E10	VLB2 (// freq on 5230m - QRM - vy weak) USB 16-12-02

Mon 0345 (MS)

4015.0	E10	VLB2 (// freq 5230m and 7690m) USB 16-12-02 Mon 0445 (MS)
4015.0	E10	VLB2 (// freq on 6912m) USB 21-12-02 Sat 0245 (MS)
4027.0	M08a	(in progress - missed callup) CW 28-12-02 Sat 1100
4050.0	E06	null msg for 617 USB 11-12-02 Wed 2021 (GG)
4110	G04	67016 50455 35gr AM 05-12-02 Thu 2100 (HFD)
4153.0	XSL	Slot Machine AM 01-12-02 Sun 1445 (DT0)
4165	E10	CI02 AM 14-12-02 Sat 2245 (AB)
4165.0	E10a	CI029XSPH USB 11-12-02 Wed 1915 (GG)
4171.5	M21	Russian Air Defense. Plots CW 06-12-02 2030 (RGA)
4173.0	M08a	ID 53562 ----- (in progress) CW 15-12-02 Sun
4173.0	M08a	ID 94802 95251 25441 CW 18-12-02 Wed 1100 (MS)
4173.0	M08a	ID 62381 44811 95253 CW 20-12-02 Fri 1100 (MS)
4173.0	M08a	ID 62563 43491 01713 CW 29-12-02 Sun 1100 (MS)
4210	G04	67016 50455 35gr AM 05-12-02 Thu 2130 (HFD)
4231.0	XSL	Japanese Navy PSK USB 29-12-02 Sun 0729 (BM)
4241	M22	4XZ. Israeli navy Haifa. VVV marker + msgs CW 23-12-02 Mon 2024 (AB)
4270	E10	PCD2 AM 15-12-02 Sun 2230 (AB)
4270	E10	PCD2 AM 19-12-02 Thu 1855 (AB)
4270.0	E10	PCD2 USB 11-12-02 Wed 1700 (GG)
4270.0	E10	PCD2 USB 11-12-02 Wed 1900 (GG)
4270.0	E10	PCD2 USB 11-12-02 Wed 1930 (GG)
4270.0	E10	PCD2 USB 11-12-02 Wed 2000 (GG)
4270.0	E10	PCD2 USB 11-12-02 Wed 2030 (GG)
4284	M13	id 346 CW 25-12-02 Wed 2200 (AB)
4290.0	XSL	Slot Machine AM 01-12-02 Sun 1445 (DT0)
4360	E10	KPA2 AM 14-12-02 Sat 2118 (AB)
4360	E10	KPA2 AM 20-12-02 Fri 2220 (AB)
4360.0	E10	KPA2 USB 11-12-02 Wed 1715 (GG)
4461	E10	FTJ AM 19-12-02 Thu 2000 (AB)
4461.0	E10	USB 10-12-02 Tue 2133 (AVX)
4461.0	E10	FTJ2 USB 11-12-02 Wed 1700 (GG)
4461.0	E10	FTJ 145 JDTNS USB 11-12-02 Wed 1930 (GG)
4461.0	E10	FTJ 59 ZERPn USB 11-12-02 Wed 2000 (GG)
4461.0	E10	FTJ 13 NAORQ USB 11-12-02 Wed 2030 (GG)
4461.0	E10	(in progress - too weak for copy) USB 16-12-02 Mon
4478.0	M08a	(in progress - missed callup) CW 28-12-02 Sat 1100
4479.0	V02a	In prog AM 18-12-02 Wed 0320 (BM)
4507.0	V02a	(in progress - missed callup - YL/SS) USB 28-12-02 Sat 1100 (MS)
4518.0	M31	FDI8 CW 16-12-02 Mon 0320 (MS)
4557.9	MX	Cluster beacon "S", Arkhangelsk CW 21-12-02 Sat 2152
4560	E10	YHF2 AM 14-12-02 Sat 2300 (AB)
4560.0	E10	YHF2 USB 07-12-02 Sat 2300 (GG)
4560.0	E10	YHF USB 11-12-02 Wed 1900 (GG)
4560.0	E10	YHF2 USB 11-12-02 Wed 2000 (GG)

4625 S28 Buzzer 14-12-02 Sat 2221 (AB)
 4625.0 S28 Buzzer busy at buzzing AM 11-12-02 Wed 2025 (GG)
 4880 E10 ULX2 AM 20-12-02 Fri 1600 (AB)
 4880.0 E10 ULX2 USB 01-12-02 Sun 2230 (GG)
 4880.0 E10 ULX2 USB 02-12-02 Mon 0430 (GG)
 4880.0 E10 ULX2 USB 02-12-02 Mon 2230 (GG)
 4880.0 E10 ULX USB 08-12-02 Sun 0030 (GG)
 4880.0 E10 ULX2 USB 08-12-02 Sun 0330 (GG)
 4880.0 E10 ULX2 USB 08-12-02 Sun 0430 (GG)
 4880.0 E10 in progress USB 11-12-02 Wed 1647 (GG)
 4880.0 E10 ULX2 USB 11-12-02 Wed 1900 (GG)
 4880.0 E10 ULX2 USB 11-12-02 Wed 1930 (GG)
 4880.0 E10 ULX 17 EWAHR USB 11-12-02 Wed 2000 (GG)
 4880.0 E10 (too weak - believe it was ULX) USB 16-12-02 Mon 0030
 4880.0 E10 (in progress - too weak for copy) USB 16-12-02 Mon
 4880.0 E10 ULX USB 16-12-02 Mon 0230 (MS)
 4880.0 E10 ULX2 USB 16-12-02 Mon 0330 (MS)
 4880.0 E10 ULX2 USB 16-12-02 Mon 0430 (MS)
 4880.0 E10 ULX (// freq on 6270m) USB 16-12-02 Mon 0500 (MS)
 4880.0 E10 ULX (// freq on 6270m) USB 18-12-02 Wed 0500 (MS)
 4880.0 E10 ULX (// freq on 6270m) USB 19-12-02 Thu 2300 (MS)
 5026.8 M10 CW 30-12-02 Mon 0410 (RC)
 5026.8 M10 weak but copiable. Repeat of 28Dec. CW 31-12-02 Tue
 0210 (RC)
 5027 M10 555 071 210 31 071 19 CW 28-12-02 Sat 0210 (RC)
 5027.0 M10 555x3 898x3 19 310x3 22 (R5) CW 16-12-02 Mon 0210 (MS)
 5027.0 M10 555x3 898x3 19 310x3 22 (R5) CW 16-12-02 Mon 0410 (MS)
 5027.0 M10 555x3 898x3 19 310x3 22 (R5) CW 18-12-02 Wed 0210 (MS)
 5027.0 M10 555x3 898x3 19 310x3 22 (R5) CW 18-12-02 Wed 0410 (MS)
 5027.0 M10 555x3 212x3 40 886x3 20 (R5) CW 21-12-02 Sat 0210 (MS)
 5027.0 M10 555x3 212x3 40 886x3 20 (R5) CW 21-12-02 Sat 0410 (MS)
 5027.0 M10 555x3 212x3 40 886x3 20 (R5) CW 25-12-02 Wed 0210 (MS)
 5027.0 M10 555x3 071x3 19 210x3 31 (R5) CW 28-12-02 Sat 0410 (MS)
 5028 S04 in progress USB 24-12-02 Tue 1752 (PPs)
 5091 E10 JSR AM 14-12-02 Sat 2130 (AB)
 5091 E10 JSR2 AM 15-12-02 Sun 2230 (AB)
 5091 E10 JSR2 AM 17-12-02 Tue 2000 (AB)
 5091.0 E10 JSR 2 msgs: 23 WRIGM / 63 MIHUB USB 01-12-02 Sun 2230
 (GG)
 5091.0 E10 JSR 2 msgs : 23 WRIGM / 63 MIHUB USB 02-12-02 Mon 2231
 (GG)
 5091.0 E10 JSR 2 msgs : 23 WRIGM / 63 MIHUB USB 03-12-02 Tue 2231
 (GG)
 5091.0 E10 ULX 2 msgs : 23 WRIGM / 63 MIHUB USB 04-12-02 Wed 2231
 (GG)
 5091.0 E10 JSR 60 TAXBJ USB 05-12-02 Thu 2030 (GG)
 5091.0 E10 JSR 60 TAXBJ USB 06-12-02 Fri 2030 (GG)
 5091.0 E10 JSR 44 YFCRZ USB 06-12-02 Fri 2100 (GG)

5091.0 E10 JSR 47 YYCRZ USB 06-12-02 Fri 2106 (GG)
5091.0 E10 JSR 2 msgs : 23 WRIGM / 63 MIHUB USB 06-12-02 Fri 2230 (GG)
5091.0 E10 JSR 14 QECYT USB 06-12-02 Fri 2230 (GG)
5091.0 E10 JSR2 USB 07-12-02 Sat 2130 (GG)
5091.0 E10 JSR2 USB 07-12-02 Sat 2200 (GG)
5091.0 E10 JSR 2 msgs : 23 WRIGM / 63 MIHUB USB 07-12-02 Sat 2230 (GG)
5091.0 E10 JSR USB 08-12-02 Sun 0331 (GG)
5091.0 E10 JSR 21 JEXKC USB 08-12-02 Sun 2200 (GG)
5091.0 E10 JSR 81 TBDQK (RTTY QRM) USB 11-12-02 Wed 1700 (GG)
5091.0 E10 JSR ?? XUZH B USB 11-12-02 Wed 1900 (GG)
5091.0 E10 JSR 83 ZNWPQ USB 11-12-02 Wed 1930 (GG)
5091.0 E10 JSR2 USB 11-12-02 Wed 2000 (GG)
5091.0 E10 EZI (very weak) USB 16-12-02 Mon 0330 (MS)
5103 E07 981/1 196/28=13968 AM 23-12-02 Mon 2140 (HFD)
5159 M22 4XZ. Israeli navy Haifa. VVV marker + msgs CW 23-12-02 Mon 2024 (AB)
5159 M22 4XZ. Israeli navy Haifa. VVV marker CW 30-12-02 Mon 0238 (WP3)
5159 M22 4XZ. Israeli navy Haifa. VVV marker CW 31-12-02 Tue 1749 (DW)
5190 G06 308/00000 AM 02-12-02 Mon 1900 (HFD)
5210 M29 76/32:23 0800= 71645 CW 23-12-02 Mon 0700 (HFD)
5210 M29 CW 30-12-02 Mon 1300 (HFD)
5230 E10 VLB 50 AM 04-12-02 Wed 2220 (AB)
5230 E10 VLB + msg AM 05-12-02 0427 (TW)
5230 E10 VLB H13KUF AM 08-12-02 Sun 2025 (AB)
5230 E10 VLB 6H8B AM 09-12-02 Mon 1955 (AB)
5230 E10 VLB B202 AM 10-12-02 Tue 1955 (AB)
5230 E10 VLB T16R23B22 //4015 kHz AM 14-12-02 Sat 2045 (AB)
5230.0 E10 VLB2 USB 02-12-02 Mon 0548 (GG)
5230.0 E10 VLB2 USB 06-12-02 Fri 0145 (GG)
5230.0 E10 VLB2 USB 06-12-02 Fri 2245 (GG)
5230.0 E10 VLB2 USB 08-12-02 Sun 2150 (BM)
5230.0 E10 VLB2 USB 09-12-02 Mon 0145 (GG)
5230.0 E10 VLB2 USB 09-12-02 Mon 0345 (GG)
5230.0 E10 VLB2 USB 09-12-02 Mon 0445 (GG)
5230.0 E10 VLB2 USB 11-12-02 Wed 0547 (GG)
5230.0 E10 VLB2 USB 11-12-02 Wed 1645 (GG)
5230.0 E10 VLB2 USB 12-12-02 Thu 0547 (GG)
5230.0 E10 VLB2 USB 12-12-02 Thu 1647 (GG)
5230.0 E10 VLB2 (out of time slot) USB 13-12-02 Fri 0044 (GG)
5230.0 E10 VLB2 USB 13-12-02 Fri 0145 (GG)
5230.0 E10 VLB2 USB 13-12-02 Fri 0345 (GG)
5230.0 E10 VLB2 USB 13-12-02 Fri 0445 (GG)
5230.0 E10 VLB2 USB 13-12-02 Fri 0547 (GG)
5230.0 E10 VLB2 USB 15-12-02 Sun 0330 (MS)

5230.0 E10 VLB2 USB 15-12-02 Sun 2245 (MS)
5230.0 E10 VLB2 USB 15-12-02 Sun 2345 (MS)
5230.0 E10 VLB2 USB 16-12-02 Mon 0045 (MS)
5230.0 E10 VLB2 USB 16-12-02 Mon 0145 (MS)
5230.0 E10 VLB2 USB 16-12-02 Mon 0245 (MS)
5230.0 E10 VLB2 (// freq on 4015m) USB 16-12-02 Mon 0345 (MS)
5230.0 E10 VLB2 (// freq 7690m and 4015m) USB 16-12-02 Mon 0445 (MS)
5230.0 E10 VLB2 (// freq 7690m) USB 16-12-02 Mon 0545 (MS)
5230.0 E10 VLB2 USB 17-12-02 Tue 2245 (MS)
5230.0 E10 VLB2 USB 17-12-02 Tue 2345 (MS)
5230.0 E10 VLB2 (// freq on 4015m) USB 21-12-02 Sat 0245 (MS)
5230.0 E10a VLBMN0 might be erroneous very weak USB 10-12-02 Tue 0545 (GG)
5230.0 E10a VLB2 (out of time slot) USB 11-12-02 Wed 2102 (GG)
5283.0 M13 757 (R5) BT 244 20 BT CW 20-12-02 Fri 2245 (MS)
5310 M29 76/32:23 0800= 71645 CW 23-12-02 Mon 0730 (HFD)
5310 M29 CW 30-12-02 Mon 1330 (HFD)
5314.0 V02 short group AM 15-12-02 Sun 1000 (DT0)
5339 E10 MIW2 AM 14-12-02 Sat 2215 (AB)
5339 E10 MIW2 AM 20-12-02 Fri 1615 (AB)
5339.0 E10 bearely audible under RTTY USB 08-12-02 Sun 0415 (GG)
5339.0 E10 MIW2 USB 11-12-02 Wed 1715 (GG)
5359 XP msg 06-12-02 Fri 2150 (HFD)
5400.0 XM Whales in prog USB 09-12-02 Mon 0424 (BM)
5422 E03 LP in progress USB 08-12-02 2226 (RGA)
5422 E03 LP. Id 94186 USB 29-12-02 Sun 2200 (AB)
5435 E10 ART AM 14-12-02 Sat 2300 (AB)
5435 E10 ART AM 20-12-02 Fri 1530 (AB)
5435 XM Whales 19-12-02 Thu 0612 (AB)
5435.0 E10 ART 80 YMRTG USB 03-12-02 Tue 2000 (GG)
5435.0 E10 ART weak USB 05-12-02 Thu 2000 (GG)
5435.0 E10 ART 2 msgs: 115 YJNBE/19 VECRI USB 07-12-02 Sat 2300 (GG)
5435.0 E10 ART2 USB 10-12-02 Tue 2200 (AVX)
5435.0 E10 ART USB 10-12-02 Tue 2300 (AVX)
5435.0 E10 ART 20 AZYBM USB 11-12-02 Wed 1700 (GG)
5435.0 E10 ART 118 QFRHN USB 11-12-02 Wed 1930 (GG)
5435.0 E10 28 UDOND (??? very fast delivery) USB 11-12-02 Wed 2000 (GG)
5435.0 E10 ART2 USB 16-12-02 Mon 0130 (MS)
5435.0 E10 PCD2 and ART on the same frequency. AM 28-12-02 Sat 2300 (AVX)
5435.0 XM "Whales" USB 19-12-02 Thu 2130 (MS)
5435.0 XM "Whales" USB 20-12-02 Fri 1135 (MS)
5435.0 XM "Whales" USB 21-12-02 Sat 0230 (MS)
5437.0 E10 ART; message repeated AM 10-12-02 Tue 0000 (AVX)
5465 MX Russian mil Izhevsk, channel marker "R" CW 14-12-02

Sat 2209 (AB)

5465	MX	Channel marker "R", Izhevsk CW 20-12-02 Fri 2310 (AB)
5465.0	MX	R CW 11-12-02 Wed 2025 (GG)
5730	XP	Null msg AM 19-12-02 Thu 2120 (AB)
5746	E03	LP id 98426 USB 19-12-02 Thu 2100 (AB)
5746	E03	LP in progress USB 26-12-02 Thu 2112 (AB)
5746	E03	LP. Id 14831 USB 29-12-02 Sun 2100 (AB)
5746	E03	LP. Id 98426 USB 31-12-02 Tue 1800 (AB)
5746.0	E03	"POACHER" heard, VERY weak. USB 11-12-02 Wed 1900 (BD)
5762.0	V02	(in progress - missed callup) YL/SS AM 21-12-02 Sat 0405 (MS)
5764	E03	LP in progress USB 25-12-02 Wed 1936 (AB)
5820	E10	UHF AM 20-12-02 Fri 1530 (AB)
5820	E10	YHF AM 24-12-02 Thu 2200 (AB)
5820.0	E10	YHF2 USB 11-12-02 Wed 1700 (GG)
5820.0	E10	YHF USB 11-12-02 Wed 1900 (GG)
5820.0	E10	YHF2 USB 11-12-02 Wed 2000 (GG)
5883.0	V02a	(in progress) ID 23602 40261 --- AM 21-12-02 Sat 0500
5899	E07	981/1 196/28=13968 AM 23-12-02 Mon 2120 (HFD)
5927	XP	msg 06-12-02 Fri 2130 (HFD)
5927	XP	null msg AM 27-12-02 Fri 2130 (AB)
6270	E10	ULX2 AM 20-12-02 Fri 1530 (AB)
6270	E10	ULX2 AM 24-12-02 Thu 2200 (AB)
6270.0	E10	ULX2 USB 02-12-02 Mon 0430 (GG)
6270.0	E10	ULX2 weak USB 08-12-02 Sun 0430 (GG)
6270.0	E10	ULX2 USB 10-12-02 Tue 2301 (AVX)
6270.0	E10	in progress USB 11-12-02 Wed 1647 (GG)
6270.0	E10	ULX2 USB 11-12-02 Wed 1700 (GG)
6270.0	E10	ULX2 USB 11-12-02 Wed 1930 (GG)
6270.0	E10	ULX2 USB 15-12-02 Sun 2300 (MS)
6270.0	E10	ULX (// freq 7760m) USB 16-12-02 Mon 0100 (MS)
6270.0	E10	ULX2 USB 16-12-02 Mon 0430 (MS)
6270.0	E10	ULX (// freq on 4880m) USB 16-12-02 Mon 0500 (MS)
6270.0	E10	ULX USB 16-12-02 Mon 0600 (MS)
6270.0	E10	ULX (// freq on 4880m) USB 18-12-02 Wed 0500 (MS)
6270.0	E10	ULX (// freq on 4880m) USB 19-12-02 Thu 2300 (MS)
6270.0	E10	ULX USB 20-12-02 Fri 2300 (MS)
6270.0	E10	ULX2 USB 21-12-02 Sat 2200 (MS)
6272.0	M13	517 (R5) BT 224 21 BT CW 17-12-02 Tue 2100 (MS)
6370	E10	KPA2 AM 20-12-02 Fri 1518 (AB)
6370.0	E10	KPA2 USB 16-12-02 Mon 0515 (MS)
6379	M22	4XZ. Israeli Navy Haifa. VVV marker + msgs CW 29-12-02 Sun 2147 (AB)
6379	M22	4XZ. Israeli navy Haifa. VVV marker CW 30-12-02 Mon 0128 (WP3)
6428.0	E10	in progress ABC rpt until 21:28 and off AM 01-12-02 Sun 0021 (LC2)
6472.0	M13	272 (R5) BT 263 20 BT CW 17-12-02 Tue 2200 (MS)

6485 E03 LP. Id 94186 USB 25-12-02 Wed 1600 (AB)
6485 E03 LP in progress USB 25-12-02 Wed 1936 (AB)
6485 E03 LP. Id 94186 USB 29-12-02 Sun 2200 (AB)
6485.0 E03 "POACHER" heard, VERY weak. USB 11-12-02 Wed 1900 (BD)
6485.0 E03 40319 USB 11-12-02 Wed 1900 (GG)
6485.0 E03 (in progress-YL/EE) USB 15-12-02 Sun 2238 (MS)
6498 E10 PCD AM 24-12-02 Thu 2200 (AB)
6498.0 E10 PCD 85 ZSHCL USB 08-12-02 Sun 0030 (GG)
6498.0 E10 PCD2 USB 11-12-02 Wed 1700 (GG)
6498.0 E10 PCD2 USB 11-12-02 Wed 1900 (GG)
6498.0 E10 (in progress - missed callup) USB 16-12-02 Mon 0430
6498.0 E10 PCD2 USB 16-12-02 Mon 0530 (MS)
6647 V08 19:00:15 YL, 19:03:18 mx, 19:03:45 silent, 19:04:55
s/off AM 07-12-02 Sat 1900 (HFD)
6647.0 V08 -1900 strong carr.,fm vx,mx in the end AM 07-12-02 Sat
1900 (JE)
6678.0 V02a In prog; harmonic of 3389? Clearer than AM 17-12-02
Tue 0120 (BM)
6748 M12 351 351 351 000. Ends at 2232 UTC. Short zero's CW
30-12-02 Mon 2230 (AB)
6768.0 V02a ID 73841 15251 87733 AM 16-12-02 Mon 0400 (MS)
6786.0 V02 962 04 (YL/SS) AM 29-12-02 Sun 1100 (MS)
6797 M22 4XZ. Israeli Navy Haifa. VVV marker + msgs CW 14-12-02
Sat 2202 (AB)
6797 M22 4XZ. Israeli navy Haifa. VVV marker CW 30-12-02 Mon
0155 (WP3)
6797.0 M08a ID 58131 37552 38442 CW 15-12-02 Sun 1200 (MS)
6797.0 M08a ID ----- 37553 ----- (ip, early start. CW 16-12-02 Mon
6797.0 M08a ID 40913 81991 78751 CW 20-12-02 Fri 1200 (MS)
6840 E10 EZI AM 16-12-02 Sat 2200 (AB)
6840 E10 EZI AM 24-12-02 Thu 2200 (AB)
6840 S06 in progress. Ends 00000 AM 24-12-02 Thu 2130 (AB)
6840.0 E10 EZI several msgs USB 11-12-02 Wed 1900 (GG)
6840.0 E10 EZI (// freq 9130m) USB 16-12-02 Mon 0130 (MS)
6840.0 E10 EZI (// freq on 9130m) USB 16-12-02 Mon 0230 (MS)
6840.0 E10 EZI USB 18-12-02 Wed 0230 (MS)
6855.0 V02a (uncopiable - two V2a broadcasts on top AM 16-12-02
Mon 0300 (MS)
6912 E10 SYN2 AM 14-12-02 Sat 2120 (AB)
6912 E10 SYN F49G12K78 AM 15-12-02 Sun 2045 (AB)
6912.0 E10 SYN2 USB 02-12-02 Mon 0546 (GG)
6912.0 E10 SYN2 USB 03-12-02 Tue 1646 (GG)
6912.0 E10 SYN2 USB 06-12-02 Fri 2245 (GG)
6912.0 E10 SYN2 USB 08-12-02 Sun 0445 (GG)
6912.0 E10 SYN2 USB 08-12-02 Sun 2149 (BM)
6912.0 E10 SYN2 USB 09-12-02 Mon 0148 (GG)
6912.0 E10 SYN2 USB 09-12-02 Mon 0348 (GG)
6912.0 E10 SYN2 USB 09-12-02 Mon 0449 (GG)

6912.0 E10 USB 11-12-02 Wed 1645 (GG)
6912.0 E10 SYN2 USB 15-12-02 Sun 0245 (BM)
6912.0 E10 SYN F49G12K78 (in progress for over an hour) USB
15-12-02 Sun 2200 (MS)
6912.0 E10 SYN2 USB 15-12-02 Sun 2300 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0045 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0145 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0245 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0345 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0445 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0545 (MS)
6912.0 E10 SYN2 USB 16-12-02 Mon 0645 (MS)
6912.0 E10 SYN2 USB 17-12-02 Tue 2245 (MS)
6912.0 E10 SYN2 USB 17-12-02 Tue 2345 (MS)
6912.0 E10 SYN2 USB 21-12-02 Sat 0245 (MS)
6930 E10 CIO 2BVT02 AM 09-12-02 Mon 1900 (AB)
6930 E10 CIO Z9XSPH AM 11-12-02 Wed 1900 (AB)
6930 E10 CIO2 AM 14-12-02 Sat 2145 (AB)
6930.0 E10 CIO2 USB 03-12-02 Tue 1645 (GG)
6930.0 E10 CIO2 USB 06-12-02 Fri 2245 (GG)
6930.0 E10 CIO2 USB 08-12-02 Sun 0146 (GG)
6930.0 E10 CIO2 USB 08-12-02 Sun 0446 (GG)
6930.0 E10 CIO2 USB 09-12-02 Mon 0146 (GG)
6930.0 E10 CIO2 USB 09-12-02 Mon 0446 (GG)
6930.0 E10 CIO2 USB 11-12-02 Wed 1645 (GG)
6930.0 E10 CIO2 USB 13-12-02 Fri 0048 (GG)
6930.0 E10 CIO2 USB 13-12-02 Fri 0148 (GG)
6930.0 E10 CIO2 USB 13-12-02 Fri 0448 (GG)
6930.0 E10 CIO2 USB 15-12-02 Sun 2245 (MS)
6930.0 E10 CIO2 USB 15-12-02 Sun 2345 (MS)
6930.0 E10 CIO2 USB 16-12-02 Mon 0045 (MS)
6930.0 E10 CIO2 USB 16-12-02 Mon 0145 (MS)
6930.0 E10 CIO2 USB 16-12-02 Mon 0245 (MS)
6930.0 E10 CIO2 USB 16-12-02 Mon 0445 (MS)
6930.0 E10 CIO2 USB 16-12-02 Mon 0545 (MS)
6930.0 E10 CIO2 USB 17-12-02 Tue 2245 (MS)
6930.0 E10a CIOZ9XSPH USB 11-12-02 Wed 1915 (GG)
6933.0 M08a ID 25401 84662 34002 CW 28-12-02 Sat 1200 (MS)
6934 XP msg 06-12-02 Fri 2110 (HFD)
6959 E03 LP id 19478 USB 14-12-02 Sat 2100 (AB)
6959 E03 LP id 98426 USB 19-12-02 Thu 2100 (AB)
6959 E03 LP. Id 29372 USB 25-12-02 Wed 2000 (AB)
6959 E03 LP in progress USB 26-12-02 Thu 2112 (AB)
6959 E03 LP. Id 29372 USB 27-12-02 Fri 2000 (AB)
6959 E03 LP. Id 14831 USB 29-12-02 Sun 2100 (AB)
6959 E03 LP. Id 14831 USB 30-12-02 Mon 2200 (AB)
6959 E03 LP. Id 98426 USB 31-12-02 Tue 1800 (AB)
6959.0 E03 //5746//5251 (50321) USB 01-12-02 Sun 0021 (LC2)

6959.0 E03 "POACHER" heard, VERY weak. USB 11-12-02 Wed 2000 (BD)
6959.0 E03 19478 USB 11-12-02 Wed 2000 (GG)
6962 X06 04-12-02 Wed 2102 (HFD)
6964 E07 981/000 AM 02-12-02 Mon 2100 (HFD)
6964 E07 981/1 196/28=13968 AM 23-12-02 Mon 2100 (HFD)
6986 E10 ART AM 14-12-02 Sat 2300 (AB)
6986.0 E10 ART 2 msgs: 115 YJNBE/19 VECRI USB 07-12-02 Sat 2300 (GG)
6986.0 E10 ART 118 QFRHN USB 11-12-02 Wed 1930 (GG)
6986.0 E10 (in progress - missed callup) USB 16-12-02 Mon 2319
7038.9 MX Cluster beacon "S", Arkhangelsk CW 21-12-02 Sat 2129
7320.0 M08a ID 58132 37553 38443 CW 16-12-02 Mon 1300 (MS)
7320.0 M08a ID 40911 67352 07192 CW 18-12-02 Wed 1300 (MS)
7320.0 M08a (xmtr garbles badly-uncopiable AM 20-12-02 Fri 1300
7337 E03 LP. Id 64880 USB 15-12-02 Sun 1800 (AB)
7337 E03 LP. Id 64880 USB 22-12-02 Sun 1800 (AB)
7337 E03 LP. Id 90318. 12603 and 9251 kHz unreadable USB 25-12-02 Wed 2100 (AB)
7337 E03 LP. Id 64880 USB 25-12-02 Wed 2200 (AB)
7337 E03 LP. Id 90318 USB 26-12-02 Thu 2200 (AB)
7337 E03 LP. Id 90318 USB 30-12-02 Mon 1800 (AB)
7337.0 E03 USB 10-12-02 Tue 2109 (AVX)
7337.0 E03 "POACHER" heard. Very good signal USB 11-12-02 Wed 2100 (BD)
7358 E10 in progress AM 20-12-02 Fri 1516 (AB)
7439 E11 312/00, strong bc qrm AM 06-12-02 Fri 1230 (HFD)
7445 E10 KPA2 Am 14-12-02 Sat 2315 (AB)
7445.0 E10 KPA2 USB 16-12-02 Mon 0115 (MS)
7445.0 E10 KPA2 USB 16-12-02 Mon 2315 (MS)
7485.0 M13 254 (R5) BT 228 19 BT CW 19-12-02 Thu 2200 (MS)
7519.0 M08a ID 36403 47301 31431 CW 20-12-02 Fri 2200 (MS)
7519.0 M08a ID 34442 99943 29453 (Late start) CW 27-12-02 Fri 2200
7526.0 M08a ID 05983 25811 35581 CW 17-12-02 Tue 2200 (MS)
7540 E10 JSR AM 20-12-02 Fri 1530 (AB)
7540.0 E10 JSR 81 TBDQK USB 11-12-02 Wed 1700 (GG)
7555.0 M08a ID 58991 73953 02263 CW 20-12-02 Fri 0800 (MS)
7600 M22 4XZ. Israeli navy Haifa. Broadcast 75bd PSK 24-12-02 Tue 1700 (LDO)
7605 E10 MIW2 AM 14-12-02 Sat 2117 (AB)
7605 E10 MIW2 AM 20-12-02 Fri 1615 (AB)
7605 M10 in progress. 2nd msg: 886 886 886 3t 3t 2t 2t = = 23216 23216 773t3 etc CW 20-12-02 Fri 1726 (AB)
7605 S10d in progress .. 05 05 29 29 pozor pozor etc. Ends with konec konec USB 23-12-02 Mon 1745 (AB)
7605 S10d in progress. Ends at 1759 USB 30-12-02 Mon 1757 (AB)
7605.0 E10 MIW2 USB 11-12-02 Wed 1715 (GG)
7605.0 E10 MIW2 USB 16-12-02 Mon 0115 (MS)
7605.0 E10 MIW2 USB 16-12-02 Mon 0215 (MS)

7605.0 E10 MIW2 (vy weak) USB 16-12-02 Mon 0415 (MS)
7605.0 E10 MIW2 USB 16-12-02 Mon 0515 (MS)
7605.0 E10 MIW2 USB 16-12-02 Mon 2315 (MS)
7605.0 E10 MIW2 USB 18-12-02 Wed 0615 (MS)
7605.0 E10 MIW2 USB 19-12-02 Thu 2215 (MS)
7623 V GM3Z GM3Z GM3Z DE PNM9 PNM9 CW 14-12-02 Sat 2252
(DFC)
7631 XM Whales 30-12-02 Mon 1942 (AB)
7635.0 E17 274 274 274 986 986 50 50 50 groups AM 14-12-02
Sat 0008 (AVX)
7660 E10 ULX2 AM 20-12-02 Fri 1600 (AB)
7668 M16 8BY. French intel. VVV 8BY 706/063/015 CW 29-12-02 Sun
2040 (DW)
7668.0 M16 8BYx3 538/274/906 CW 16-12-02 Mon 0456 (MS)
7668.0 M16 8BYx3 281/218/506/381 CW 16-12-02 Mon 0540 (MS)
7690.0 E10 swamped in QRM USB 08-12-02 Sun 0346 (GG)
7690.0 E10 VLB2 USB 08-12-02 Sun 0446 (GG)
7690.0 E10 VLB2 USB 09-12-02 Mon 0447 (GG)
7690.0 E10 VLB2 USB 11-12-02 Wed 0546 (GG)
7690.0 E10 VLB2 USB 12-12-02 Thu 0546 (GG)
7690.0 E10 VLB2 (// freq 5230m and 4015m) USB 16-12-02 Mon 0445
(MS)
7690.0 E10 VLB2 (// freq 5230m) USB 16-12-02 Mon 0545 (MS)
7718 M42 FAPSI Moscow. Auto broadcasting null msg to recipient
162 201.68bd RTTY 24-12-02 Tue 1624 (LD0)
7737 M13 id 714 (VVV at 2049) CW 26-12-02 Thu 2100 (AB)
7737.0 M13 call for 714 CW 12-12-02 Thu 0021 (LC2)
7737.0 M13 call for 714 CW 12-12-02 Thu 0021 (LC2)
7737.0 M13 714 (R5) BT 219 20 BT CW 27-12-02 Fri 2100 (MS)
7755 E03 LP. Id 94186 USB 25-12-02 Wed 1600 (AB)
7755 E03 LP. Id 94186 USB 31-12-02 Tue 1500 (AB)
7760 E10 in progress AM 20-12-02 Fri 1517 (AB)
7760.0 E10 barely readable USB 02-12-02 Mon 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 03-12-02 Tue 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 04-12-02 Wed 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 06-12-02 Fri 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 07-12-02 Sat 0100 (GG)
7760.0 E10 91 ATUGY USB 10-12-02 Tue 0100 (GG)
7760.0 E10 91 ATUGY USB 11-12-02 Wed 0100 (GG)
7760.0 E10 91 ATUGY USB 12-12-02 Thu 0100 (GG)
7760.0 E10 91 ATUGY USB 13-12-02 Fri 0100 (GG)
7760.0 E10 ULX (// freq 6270) USB 16-12-02 Mon 0100 (MS)
7824.0 M13 253 (R5) BT 222 21 BT CW 19-12-02 Thu 2100 (MS)
7824.0 M13 253 (R5) BT 222 21 BT CW 20-12-02 Fri 2100 (MS)
7890.0 M08a ID 40912 67353 07193 CW 19-12-02 Thu 1300 (MS)
7890.0 M08a ID 25401 84662 34002 CW 28-12-02 Sat 1300 (MS)
7918.0 E10 YHF USB 16-12-02 Mon 0130 (MS)
7918.0 E10 YHF2 USB 16-12-02 Mon 0230 (MS)

7918.0 E10 (in progress - Probably YHF) USB 16-12-02 Mon 0530
8009.0 M08a (in progress - missed callup) CW 16-12-02 Mon 2322
8009.0 M08a ID 36402 25813 35583 CW 19-12-02 Thu 2200 (MS)
8010 V02a in progress AM 04-12-02 0635 (PILE)
8088 E11 183/00 AM 24-12-02 Tue 1300 (HFD)
8096.0 M08a ID 95443 63103 62112 CW 16-12-02 Mon 0500 (MS)
8097 V02a started late at 0504 AM 05-12-02 0504 (TW)
8103 M22 4XZ. Israeli navy Haifa. VVV marker + msgs CW 23-12-02
Mon 2024 (AB)
8103 M22 4XZ. Israeli navy Haifa. VVV marker CW 25-12-02 Wed
2043 (DW)
8135.0 M08a ID 05983 25811 35581 CW 17-12-02 Tue 2300 (MS)
8135.0 M08a ID 36402 25813 35583 CW 19-12-02 Thu 2300 (MS)
8135.0 M08a ID 36403 47301 31431 CW 20-12-02 Fri 2300 (MS)
8135.0 M08a ID 34442 99943 29453 CW 27-12-02 Fri 2300 (MS)
8136.0 M08a DWNNNN ----- CW 09-12-02 Mon 0703 (BM)
8136.0 M08a (in progress - stn having xmtr problems CW 18-12-02
Wed 0700 (MS)
8136.0 M08a (in progress) ----- 73953 ----- CW 20-12-02 Fri 0708
8136.0 M08a ID ----- 58222 ----- (in progress) CW 28-12-02 Sat
8175 S10d in progress. Ends with konec konec at 1536 USB
28-12-02 Sat 1527 (AB)
8190 S10d in progress. Ends at 1513 UTC with konec konec USB
25-12-02 Wed 1510 (AB)
8464 E03 LP. Id 98426 USB 22-12-02 Sun 1600 (AB)
8464 E03 LP in progress USB 25-12-02 Wed 1936 (AB)
8464 E03 LP. Id 94186 USB 29-12-02 Sun 2200 (AB)
8464.0 E03 "POACHER" heard, weak. USB 11-12-02 Wed 1900 (BD)
8464.0 E03 40319 USB 11-12-02 Wed 1900 (GG)
8588 XSL Slot Machine 06-12-02 Fri 1254 (AB)
8703.5 XSL Slot Machine 06-12-02 Fri 1254 (AB)
8805.0 E10 PCD2 USB 11-12-02 Wed 1700 (GG)
9056.0 M13 823(R5) BT 219 20 BT CW 18-12-02 Wed 0700 (MS)
9063.0 M08a (in progress - changes in mid-callup CW 18-12-02 Wed
0700 (MS)
9063.0 V02a (in progress) ----- 60771 97943 (YL/SS) AM 20-12-02
Fri 0715 (MS)
9130 E10 EZI AM 19-12-02 Thu 1830 (AB)
9130.0 E10 USB 10-12-02 Tue 2204 (AVX)
9130.0 E10 EZI several msgs USB 11-12-02 Wed 1900 (GG)
9130.0 E10 EZI 71 PFMAH USB 11-12-02 Wed 2000 (GG)
9130.0 E10 EZI (// freq 6840m) USB 16-12-02 Mon 0130 (MS)
9130.0 E10 EZI (very weak - // freq on 6840m) USB 16-12-02 Mon
0230 (MS)
9130.0 E10 EZI? then figures; faint; QRM USB 17-12-02 Tue 0130
9130.0 E10 EZI (// freq on 11565m) USB 19-12-02 Thu 2130 (MS)
9151.0 E03 ID 64880 USB 15-12-02 Sun 1803 (BM)
9152.0 M08a (in progress - missed callup) CW 28-12-02 Sat 1200

9153.0 M08a ID 44782 86753 97671 CW 18-12-02 Wed 1000 (MS)
 9153.0 M08a ID 61261 25111 01672 CW 20-12-02 Fri 1000 (MS)
 9153.0 V02a In progress AM 21-12-02 Sat 0007 (Vambo)
 9153.0 XPH USB 04-12-02 Wed 0008 (LC2)
 9165 S17C 95036 AM 06-12-02 Fri 1250 (HFD)
 9165 S17C 99032 AM 07-12-02 Sat 1250 (HFD)
 9165 S17C 99032 AM 08-12-02 Sun 1250 (HFD)
 9165 S17C 99035 AM 14-12-02 Sat 1250 (HFD)
 9165 S17C 99035 AM 15-12-02 Sun 1250 (HFD)
 9165 S17C 69032 AM 24-12-02 Tue 1250 (HFD)
 9165 S17C 99036 AM 27-12-02 Fri 1250 (HFD)
 9165 S17C 99036 AM 28-12-02 Sat 1250 (HFD)
 9165 S17C 99036 AM 29-12-02 Sun 1250 (HFD)
 9165.0 S17c USB 01-12-02 Sun 1250 (ASC)
 9202 E10 YHF2 AM 20-12-02 Fri 2230 (AB)
 9228 M42 FAPSI Moscow. Auto broadcast tfc offline crypto
 201.68bd RTTY 24-12-02 Tue 1614 (LD0)
 9238.0 M08a (in progress - missed callups) CW 17-12-02 Tue 1000
 9238.0 M08a ID 89751 50772 80192 CW 18-12-02 Wed 0900 (MS)
 9238.0 M08a ID 89753 84611 09911 CW 20-12-02 Fri 0900 (MS)
 9238.0 M08a ID ----- 03782 08041 (in progress) CW 29-12-02 Sun
 1100 (MS)
 9251 E03 LP. Id 64880 USB 15-12-02 Sun 1800 (AB)
 9251 E03 LP. id 98426 USB 19-12-02 Thu 2100 (AB)
 9251 E03 LP. Id 64880 USB 22-12-02 Sun 1800 (AB)
 9251 E03 LP. Id 29372 USB 25-12-02 Wed 2000 (AB)
 9251 E03 LP in progress USB 26-12-02 Thu 2112 (AB)
 9251 E03 LP. Id 90318 USB 26-12-02 Thu 2200 (AB)
 9251 E03 LP. Id 29372 USB 27-12-02 Fri 2000 (AB)
 9251 E03 LP. Id 14831 USB 29-12-02 Sun 2100 (AB)
 9251 E03 LP. Id 90318 USB 30-12-02 Mon 1800 (AB)
 9251 E03 LP. Id 98426 USB 31-12-02 Tue 1800 (AB)
 9251.0 E03 USB 10-12-02 Tue 2109 (AVX)
 9251.0 E03 19478 USB 11-12-02 Wed 2000 (GG)
 9251.0 E03 "POACHER" heard, fair to weak. USB 11-12-02 Wed 2000
 (BD)
 9323 V02a ends at 0440 AM 05-12-02 0400 (TW)
 9323.0 M08a (in progress - missed callups) CW 17-12-02 Tue 1000
 9323.0 M08a ID 18902 32693 48793 CW 29-12-02 Sun 0900 (MS)
 9323.0 M08a AGMTN ----- CW 29-12-02 Sun 0903 (BM)
 9330.0 M08a ID 95443 63103 62112 CW 16-12-02 Mon 0400 (MS)
 9330.0 M08a ID 38483 27182 86752 CW 18-12-02 Wed 0400 (MS)
 9330.0 M08A note a copiable spur 1.5khz higher CW 30-12-02 Mon
 0400 (RC)
 9331.0 M08a ID 17203 71703 44151 CW 18-12-02 Wed 1000 (MS)
 9331.0 V02a ID 03843 32222 27253 AM 16-12-02 Mon 0600 (MS)
 10046 M22 4XZ. Israeli navy Haifa. VVV marker + msg CW 23-12-02
 Mon 2024 (AB)

10046.0 M22 5FG 4XZ CW 05-12-02 Thu 0017 (LC2)
10046.0 M22 VVV DE 4XZ CW 08-12-02 Sun 0045 (BM)
10046.0 M22 4Xz 5fg CW 15-12-02 Sun 0021 (LC2)
10046.0 M22 VVV DE 4XZ CW 17-12-02 Tue 0539 (BM)
10046.0 M22 4XZ CW 18-12-02 Wed 0322 (BM)
10046.0 M22 VVV DE 4XZ CW 29-12-02 Sun 0000 (BM)
10119.0 M08a ID 38483 27182 86752 CW 18-12-02 Wed 0500 (MS)
10125 E11 232/00 AM 26-12-02 Thu 0800 (HFD)
10125.0 M08a ID 19602 55423 40861 CW 21-12-02 Sat 0300 (MS)
10126.0 M08a ID 62113 86751 95823 CW 16-12-02 Mon 1100 (MS)
10126.0 M08a ID 44782 86753 97671 CW 18-12-02 Wed 1100 (MS)
10126.0 M08a ID 61261 25111 01672 CW 20-12-02 Fri 1100 (MS)
10220.0 E06 203 815 234 (repeat from sat. 30 nov.) USB 01-12-02
Sun 1330 (ASC)
10248 M16 8BY. French intel. VVV 8BY 609/463/860/384 CW 29-12-02
Sun 1945 (RGA)
10344.0 M08a ID 04761 88155 53192 CW 26-12-02 Thu 0300 (MS)
10426 E03 LP. Id 98426 USB 22-12-02 Sun 1600 (AB)
10426 E03 LP. Id 94186 USB 25-12-02 Wed 1600 (AB)
10426 E03 LP. Id 14831 USB 30-12-02 Mon 2200 (AB)
10445.0 M08a ID 34101 28923 40863 CW 26-12-02 Thu 0300 (MS)
10446.0 M08a (in progress) ID ----- 50772 ----- CW 18-12-02 Wed
10446.0 M08a (in progress) ----- 84611 ----- CW 20-12-02 Fri 0810
10446.0 V02a ID 28993 70461 24801 AM 16-12-02 Mon 0300 (MS)
10446.0 V02a ID 03843 32222 27253 AM 16-12-02 Mon 0500 (MS)
10446.0 V02a In prog AM 18-12-02 Wed 0321 (BM)
10648 E10 YHF2 AM 20-12-02 Fri 2230 (AB)
10648 E10 YHF AM 21-12-02 Sat 1830 (AB)
10648.0 E10 (in progress - missed callup) USB 16-12-02 Mon 0430
10672.0 V02 426 02 (YL/SS) AM 16-12-02 Mon 0600 (MS)
10714.0 M08a In prog CW 17-12-02 Tue 0207 (BM)
10715.0 M08a ID 17203 71703 44151 CW 18-12-02 Wed 1100 (MS)
10855 M42 FAPSI. Msg + ops chat RTTY 28-12-02 Sat 1548 (AB)
10863 M42 FAPSI Moscow. Auto broadcast tfc offline crypto
201.68bd RTTY 24-12-02 Tue 1204 (LD0)
11545 E02 LP. Id 14831 USB 21-12-02 Sat 1800 (AB)
11545 E03 LP in progress USB 01-12-02 1504 (DT0)
11545 E03 LP. Id 50699 USB 22-12-02 Sun 1400 (AB)
11545 E03 LP. Id 69078 USB 22-12-02 Sun 1500 (AB)
11545 E03 LP. Id 98426 USB 22-12-02 Sun 1600 (AB)
11545 E03 LP. Id 90318 USB 22-12-02 Sun 1700 (AB)
11545 E03 LP. Id 14831 USB 25-12-02 Wed 1500 (AB)
11545 E03 LP. Id 29372 USB 25-12-02 Wed 2000 (AB)
11545 E03 LP. Id 69078 USB 26-12-02 Thu 2000 (AB)
11545 E03 LP. Id 64880 USB 27-12-02 Fri 1500 (AB)
11545 E03 LP. Id 14831 USB 30-12-02 Mon 2200 (AB)
11545.0 E03 97543 USB 12-12-02 Thu 2200 (GG)
11565 E10 EZI2 AM 20-12-02 Fri 1556 (AB)

11565.0 E10 EZI 2 msgs : 95 VTLFS/?? USB 11-12-02 Wed 1700 (GG)
11565.0 E10 EZI several msgs USB 11-12-02 Wed 1900 (GG)
11565.0 E10 EZI2 USB 12-12-02 Thu 1200 (GG)
11565.0 E10 (in progress - missed callup. Probably USB 16-12-02
Mon 0430 (MS)
11565.0 E10 EZI (// freq on 9130m) USB 19-12-02 Thu 2130 (MS)
12119.0 M08a In prog CW 17-12-02 Tue 0124 (BM)
12165.0 V02a ID 28993 70461 24801 AM 16-12-02 Mon 0200 (MS)
12210.0 E06 203 815 234 (repeat from sat. 30 nov.) USB 01-12-02
Sun 1230 (ASC)
12603 E03 LP in progress USB 01-12-02 1504 (DT0)
12603 E03 LP. Id 64880 USB 15-12-02 Sun 1800 (AB)
12603 E03 LP. Id 69078 USB 22-12-02 Sun 1500 (AB)
12603 E03 LP. Id 90318 USB 22-12-02 Sun 1700 (AB)
12603 E03 LP. Id 64880 USB 22-12-02 Sun 1800 (AB)
12603 E03 LP. Id 50699 USB 25-12-02 Wed 1700 (AB)
12603 E03 LP. Id 90318 USB 26-12-02 Thu 2200 (AB)
12603 E03 LP. Id 64880 USB 27-12-02 Fri 1500 (AB)
12603.0 E03 USB 11-12-02 Wed 1712 (GG)
12603.0 E03 "POACHER" heard. Extremely weak with QRM USB 11-12-02
Wed 2222 (BD)
12603.0 E03 ID 64880; good copy USB 15-12-02 Sun 1800 (BM)
12984 M22 4XZ. Israeli navy Haifa. Tfc in Hebrew? CW 29-12-02
Sun 1105 (WP3)
12985 M22 4XZ. Israeli navy Haifa. VVV marker CW 27-12-02 Fri
1554 (AB)
13375 E03 LP in progress USB 01-12-02 1504 (DT0)
13375 E03 LP. Id 69078 USB 22-12-02 Sun 1500 (AB)
13375 E03 LP. Id 90318 USB 22-12-02 Sun 1700 (AB)
13375 E03 LP. Id 64880 USB 27-12-02 Fri 1500 (AB)
13375.0 E03 End of transmission. Good signal. USB 30-12-02 Mon
1543 (AJ)
13436.0 V02a In prog AM 17-12-02 Tue 0124 (BM)
13527.9 MX Cluster beacon "S", Arkhangelsk CW 21-12-02 Sat 1339
13533 E10 EZI AM 19-12-02 Thu 1830 (AB)
13533 E10 EZI2 AM 21-12-02 Sat 1600 (AB)
13533.0 E10 EZI2 USB 12-12-02 Thu 1200 (GG)
13906.0 E05 509 (weak) USB 01-12-02 Sun 1200 (ASC)
14435 M42 Dep of State Comms Moscow. Offline crypto MFSK
25-12-02 Wed 0824 (LD0)
14487 E03 LP. Id 29372 USB 22-12-02 Sun 1300 (AB)
14487 E03 LP. Id 50699 USB 22-12-02 Sun 1400 (AB)
14487 E03 LP. Id 90318 USB 25-12-02 Wed 1200 (AB)
14487 E03 LP. Id 14831 USB 25-12-02 Wed 1500 (AB)
14487 E03 LP. Id 50699 USB 25-12-02 Wed 1700 (AB)
14487 E03 LP. Id 90318 USB 27-12-02 Fri 1400 (AB)
14487 E03 LP. Id 42231 USB 31-12-02 Tue 1300 (AB)
14487.0 E03 "POACHER" found in progress. Weak, but readable USB

11-12-02 Wed 1742 (BD)
 14487.0 E03 97543 USB 12-12-02 Thu 1200 (GG)
 14567 Unid. 5FGs ending 41496 13020 000 CW 29-12-02 Sun 1507
 (RGA)
 14655 E06 English Man AM 11-12-02 1500 (RJD)
 14739.0 E05 in progress, //16198 USB 01-12-02 Sun 1521 (ASC)
 14882 M42 Dep of State Comms Moscow. Offline crypto MFSK
 25-12-02 Wed 0835 (LD0)
 15627 X06/M FAPSI. Mazielka call for 10 minutes followed by a msg
 42 in MFSK 20-12-02 Fri 1400 (AB)
 15682 E03 LP. Id 29372 USB 22-12-02 Sun 1300 (AB)
 15682 E03 LP. Id 50699 USB 22-12-02 Sun 1400 (AB)
 15682 E03 LP. Id 90318 USB 25-12-02 Wed 1200 (AB)
 15682 E03 LP. Id 90318 USB 27-12-02 Fri 1400 (AB)
 15682 E03 LP. Id 42231 USB 31-12-02 Tue 1300 (AB)
 15682.0 E03 97543 USB 12-12-02 Thu 1200 (GG)
 15840 E06 Russian Man. Ended with 00000 AM 29-12-02 Sun 1531
 16084 E03 LP. Id 29372 USB 22-12-02 Sun 1300 (AB)
 16084 E03 LP. Id 90318 USB 25-12-02 Wed 1200 (AB)
 16084 E03 LP. Id 14831 USB 25-12-02 Wed 1500 (AB)
 16084 E03 LP. Id 90318 USB 27-12-02 Fri 1400 (AB)
 16084 E03 LP. Id 42231 USB 31-12-02 Tue 1300 (AB)
 16084.0 E03 97543 USB 12-12-02 Thu 1200 (GG)
 16197 E03 LP in progress USB 25-12-02 Wed 1605 (RH2)
 16198.0 E05 in progress, //14739 USB 01-12-02 Sun 1521 (ASC)
 16204 MX Channel marker "P", Kaliningrad CW 04-12-02 1149
 16331.9 MX Cluster beacon "S", Arkhangelsk CW 21-12-02 Sat 1339
 16475 E03 LP. Id 50699 USB 25-12-02 Wed 1700 (AB)
 17410 E10 EZI2 AM 20-12-02 Fri 1530 (AB)
 17410 E10 EZI AM 21-12-02 Sat 0830 (AB)
 18036 E05 in progress USB 01-12-02 1213 (PILE)
 18233 E03 LP. Id 56046 USB 25-12-02 Wed 1400 (AB)
 18257 M42 FAPSI. Msg MFSK 25-12-02 Wed 1129 (AB)
 18617 E05 in progress USB 28-12-02 Sat 1406 (TFEI)
 18864 E04 Cherry Ripe id 56046 USB 18-12-02 Wed 1400 (E2K)
 18864 E04 Cherry Ripe id 70720 USB 20-12-02 Fri 1100 (AB)
 18864 E04 Cherry Ripe id 33694 USB 20-12-02 Fri 1200 (AB)
 18864 E04 Cherry Ripe id 07257 USB 20-12-02 Fri 1300 (AB)
 18864 E04 Cherry Ripe. Id 77764 USB 25-12-02 Wed 1200 (AB)
 18864 E04 Cherry Ripe. Id 70740 USB 25-12-02 Wed 1300 (AB)
 18864 E04 Cherry Ripe. Id 07257 USB 27-12-02 Fri 1300 (AB)
 18864.0 E04 in progress USB 12-12-02 Thu 1114 (GG)
 18864.0 E04 48960 USB 12-12-02 Thu 1200 (GG)
 19209 M42 Dep of State Comms Moscow. Msg on link 00050 RTTY
 25-12-02 Wed 1049 (LD0)
 19209 M42 FAPSI. Msg on link 00050 RTTY 25-12-02 Wed 1105 (AB)
 19452 E03 LP. Id 56046 USB 25-12-02 Wed 1400 (AB)
 19622 E05 in progress USB 28-12-02 Sat 1406 (TFEI)

19715	E10	EZI AM 21-12-02 Sat 0830 (AB)
20047.9	MX	Cluster beacon "S", Arkhangel'sk CW 21-12-02 Sat 1339
20707	E03	LP. Id 56046 USB 25-12-02 Wed 1400 (AB)
20707	E04	Cherry Ripe id 56046 USB 18-12-02 Wed 1400 (E2K)
20707.0	E04	USB 11-12-02 Wed 0014 (LC2)
20707.0	E04	USB 11-12-02 Wed 0014 (LC2)
20946	M16	8BY. French intel CW 31-12-02 Tue 1043 (HPT)
20991	M42	FAPSI. In progress. Possibly link 00099 RTTY 22-12-02 Sun 1340 (AB)
21866	E04	Cherry Ripe. Id 07257 USB 20-12-02 Fri 1300 (AB)
21866	E04	Cherry Ripe. Id 70740 USB 25-12-02 Wed 1300 (AB)
21866	E04	Cherry Ripe. Id 07257 USB 27-12-02 Fri 1300 (AB)
23195	E10	TMS2 AM 03-12-02 1222 (RGA)
23195	E10	TMS2 AM 03-12-02 1222 (RGA)
23461	E04	Cherry Ripe id 70720 USB 20-12-02 Fri 1100 (AB)
23461	E04	Cherry Ripe id 33694 USB 20-12-02 Fri 1200 (AB)
23461	E04	Cherry Ripe. Id 77764 USB 25-12-02 Wed 1200 (AB)
23461.0	E04	in progress USB 12-12-02 Thu 1114 (GG)
23461.0	E04	48960 USB 12-12-02 Thu 1200 (GG)
23740	E10	EZI AM 20-12-02 Fri 1400 (AVX)

::: Contributors to the logs section

AB	Ary Boender, Netherlands
AJ	Andrew Jones, UK
ASC	Anonymous, Scandinavia
AVX	Alpha, Germany
BD	Biggus Dickus, Wisconsin, USA
BM	Ben Mesander, CO, USA
DT0	Dave Too, CA, USA
DW	Day Watson, UK
E2K	AnonE2k
GG	Gallus Galus, W.Europe
HFD	Hans-Friedrich Dumrese, Germany
HPT	Hans-Peter Tillmann, Germany
JE	Joerg Eberhardt, Germany
LC2	Laurent Carbonnaux, France
LDO	Leif Dehio, Germany
MM4	Maciej Muszalski, Poland
PILE	Pile, Finland
PPs	Piet Pijpers
RC	Ralph Cameron, CAN
RGA	Jim, UK
RH2	Robert Hall, S.Africa
RJD	Richard Deasington, France
TFEI	Robert Fei, Taiwan
TW	Thai Williams, OH, USA
Vambo	Vambo, CO, USA

WP3 Wolfgang Palmberger

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